

VDRC publications 2020 (total 493)

Genome-Wide Screen for Context-Dependent Tumor Suppressors Identified Using in Vivo Models for Neoplasia in Drosophila.

Groth C, Vaid P, Khatpe A, Prashali N, Ahiya A, Andrejeva D, Chakladar M, Nagarkar S, Paul R, Kelkar D, Eichenlaub T, Herranz H, Sridhar TS, Cohen SM, Shashidhara LS. *G3 (Bethesda)*. 2020 Sep 2;10(9):2999-3008. doi: 10.1534/g3.120.401545.

PMID: 32737065

[\[Abstract\]](#)

Analysis of genes within the schizophrenia-linked 22q11.2 deletion identifies interaction of night owl/LZTR1 and NF1 in GABAergic sleep control.

Maurer GW, Malita A, Nagy S, Koyama T, Werge TM, Halberg KA, Texada MJ, Rewitz K.

PLoS Genet. 2020 Apr 27;16(4):e1008727. doi: 10.1371/journal.pgen.1008727. eCollection 2020 Apr.

PMID: 32339168

[\[Abstract\]](#)

Knockdown of genes involved in axonal transport enhances the toxicity of human neuromuscular disease-linked MATR3 mutations in Drosophila.

Zhao M, Kao CS, Arndt C, Tran DD, Cho WI, Maksimovic K, Chen XXL, Khan M, Zhu H, Qiao J, Peng K, Hong J, Xu J, Kim D, Kim JR, Lee J, van Bruggen R, Yoon WH, Park J.

FEBS Lett. 2020 Jun 9. doi: 10.1002/1873-3468.13858. Online ahead of print.

PMID: 32515490

[\[Abstract\]](#)

Oligodendrocytes Provide Antioxidant Defense Function for Neurons by Secreting Ferritin Heavy Chain.

Mukherjee C, Kling T, Russo B, Miebach K, Kess E, Schifferer M, Pedro LD, Weikert U, Fard MK, Kannaiyan N, Rossner M, Aicher ML, Goebbels S, Nave KA, Krämer-Albers EM, Schneider A, Simons M.

Cell Metab. 2020 Jun 5:S1550-4131(20)30300-4. doi: 10.1016/j.cmet.2020.05.019. Online ahead of print.

PMID: 32531201

[\[Abstract\]](#)

An in Vivo RNAi Screen Uncovers the Role of AdoR Signaling and Adenosine Deaminase in Controlling Intestinal Stem Cell Activity

Chiwei X, Brian Franklin, Hong-Wen Tang, Yannik Regimbald-Dumas, Yanhui Hu, Justine Ramos, Justin A Bosch, Christians Villalta, Xi He, Norbert Perrimon

Proc Natl Acad Sci U S A. 2020 Jan 7;117(1):464-471. doi: 10.1073/pnas.1900103117. Epub 2019 Dec 18.

PMID: 31852821

[\[Abstract\]](#)

An RNAi Screen for Secreted Factors and Cell-Surface Players in Coordinating Neuron and Glia Development in Drosophila

Zhengya Liu, Yixu Chen, Yong Rao

Mol Brain. 2020 Jan 3;13(1):1.doi: 10.1186/s13041-019-0541-5.

PMID: 31900209

[\[Abstract\]](#)

Drosophila as a Model for Studying Cystic Fibrosis Pathophysiology of the Gastrointestinal System

Kevin Kim, Elizabeth A Lane, Aurelia Saftien, Haiyun Wang, Yue Xu , Frederik Wirtz-Peitz, Norbert Perrimon

Proc Natl Acad Sci U S A. 2020 May 12;117(19):10357-10367.doi: 10.1073/pnas.1913127117. Epub 2020 Apr 28.

PMID: 32345720

[\[Abstract\]](#)

Osa-Containing Brahma Complex Regulates Innate Immunity and the Expression of Metabolic Genes in Drosophila.

Valanne S, Järvelä-Stölting M, Harjula SE, Myllymäki H, Salminen TS, Rämetsä M.

J Immunol. 2020 Apr 15;204(8):2143-2155. doi: 10.4049/jimmunol.1900571. Epub 2020 Mar 20.

PMID: 32198143

[\[Abstract\]](#)

Oxidative Stress Caused by Lead (Pb) Induces Iron Deficiency in Drosophila Melanogaster

Zhi-Hua Liu, Jin Shang, Lailai Yan, Tian Wei , Ling Xiang, Hui-Li Wang, Jigui Cheng, Guiran Xiao

Chemosphere. 2020 Mar;243:125428.doi: 10.1016/j.chemosphere.2019.125428. Epub 2019 Nov 20.

PMID: 31995880

[\[Abstract\]](#)

FoxO Suppresses Endoplasmic Reticulum Stress to Inhibit Growth of Tsc1-deficient Tissues Under Nutrient Restriction

Avantika Gupta , Hugo Stocker

Elife. 2020 Jun 11;9:e53159.doi: 10.7554/eLife.53159.

PMID: 32525804

[\[Abstract\]](#)

Disrupted Glutamate Signaling in Drosophila Generates Locomotor Rhythms in Constant Light

Renata Van De Maas de Azevedo, Celia Hansen, Ko-Fan Chen, Ezio Rosato, Charalambos P Kyriacou

Front Physiol. 2020 Mar 6;11:145.doi: 10.3389/fphys.2020.00145. eCollection 2020.

PMID: 32210832

[\[Abstract\]](#)

Evolutionary expansion of apical extracellular matrix is required for the elongation of cells in a novel structure.

Smith SJ, Davidson LA, Rebeiz M.

Elife. 2020 Apr 27;9:e55965. doi: 10.7554/eLife.55965.

PMID: 32338602

[\[Abstract\]](#)

A PI4KIII α protein complex is required for cell viability during *Drosophila* wing development.

Basu U, Balakrishnan SS, Janardan V, Raghu P.

Dev Biol. 2020 Jun 15;462(2):208-222. doi: 10.1016/j.ydbio.2020.03.008. Epub 2020 Mar 17.

PMID: 32194035

[\[Abstract\]](#)

Specialized stellate cells offer a privileged route for rapid water flux in *Drosophila* renal tubule.

Cabrero P, Terhzaz S, Dornan AJ, Ghimire S, Holmes HL, Turin DR, Romero MF, Davies SA, Dow JAT.

Proc Natl Acad Sci U S A. 2020 Jan 21;117(3):1779-1787. doi: 10.1073/pnas.1915943117. Epub 2020 Jan 6.

PMID: 31907321

[\[Abstract\]](#)

A Genetic Screen in *Drosophila* To Identify Novel Regulation of Cell Growth by Phosphoinositide Signaling.

Janardan V, Sharma S, Basu U, Raghu P.

G3 (Bethesda). 2020 Jan 7;10(1):57-67. doi: 10.1534/g3.119.400851.

PMID: 31704710

[\[Abstract\]](#)

The NMDA receptor regulates competition of epithelial cells in the *Drosophila* wing.

Banreti AR, Meier P.

Nat Commun. 2020 May 6;11(1):2228. doi: 10.1038/s41467-020-16070-6.

PMID: 32376880

[\[Abstract\]](#)

Immunoglobulin Superfamily beat-Ib Mediates Intestinal Regeneration Induced by Reactive Oxygen Species in *Drosophila*

Hiroki Nagai, Shoichiro Kurata, Tamaki Yano

Genes Cells. 2020 May;25(5):343-349. doi: 10.1111/gtc.12762. Epub 2020 Mar 10.

PMID: 32080940

[\[Abstract\]](#)

CDK7 regulates organ size and tumor growth by safeguarding the Hippo pathway effector Yki/Yap/Taz in the nucleus.

Cho YS, Li S, Wang X, Zhu J, Zhuo S, Han Y, Yue T, Yang Y, Jiang
J. Genes Dev. 2020 Jan 1;34(1-2):53-71. doi: 10.1101/gad.333146.119. Epub 2019 Dec 19.
PMID: 31857346

[\[Abstract\]](#)

Steroid Hormone Entry into the Brain Requires a Membrane Transporter in Drosophila.

Okamoto N, Yamanaka N.
Curr Biol. 2020 Jan 20;30(2):359-366.e3. doi: 10.1016/j.cub.2019.11.085. Epub 2020 Jan 9.
PMID: 31928869

[\[Abstract\]](#)

Assessment of preferable site for temperature measurement using non contact infra-red temperature among pediatric patients.

Kavthekar SO, Chougule AA, Kavthekar SS, Kurane AB, Verma S. Minerva
Pediatr. 2020 May 15. doi: 10.23736/S0026-4946.20.05755-2. Online ahead of print.
PMID: 32418406

[\[Abstract\]](#)

Elevated levels of Drosophila Wdr62 promote glial cell growth and proliferation through AURKA signalling to AKT and MYC.

Shohayeb B, Mitchell N, Millard SS, Quinn LM, Ng DCH.
Biochim Biophys Acta Mol Cell Res. 2020 Jul;1867(7):118713. doi: 10.1016/j.bbamcr.2020.118713. Epub
2020 Apr 1.
PMID: 32246948

[\[Abstract\]](#)

Mitochondria regulate intestinal stem cell proliferation and epithelial homeostasis through FOXO.

Zhang F, Pirooznia M, Xu H.
Mol Biol Cell. 2020 Jul 1;31(14):1538-1549. doi: 10.1091/mbc.E19-10-0560. Epub 2020 May 6.
PMID: 32374658

[\[Abstract\]](#)

Muscle-derived Dpp regulates feeding initiation via endocrine modulation of brain dopamine biosynthesis.

Robles-Murguía M, Rao D, Finkelstein D, Xu B, Fan Y, Demontis F.
Genes Dev. 2020 Jan 1;34(1-2):37-52. doi: 10.1101/gad.329110.119. Epub 2019 Dec 12.
PMID: 31831628

[\[Abstract\]](#)

Single-Cell Transcriptomes Reveal Diverse Regulatory Strategies for Olfactory Receptor Expression and Axon Targeting.

Li H, Li T, Horns F, Li J, Xie Q, Xu C, Wu B, Kebschull JM, McLaughlin CN, Kolluru SS, Jones RC, Vacek D, Xie A, Luginbuhl DJ, Quake SR, Luo L.

Curr Biol. 2020 Apr 6;30(7):1189-1198.e5. doi: 10.1016/j.cub.2020.01.049. Epub 2020 Feb 13.

PMID: 32059767

[\[Abstract\]](#)

The Role of Y Chromosome Genes in Male Fertility in *Drosophila melanogaster*.

Zhang J, Luo J, Chen J, Dai J, Montell C.

Genetics. 2020 May 13;genetics.303324.2020. doi: 10.1534/genetics.120.303324. Online ahead of print.

PMID: 32404399

[\[Abstract\]](#)

Dual functions of Rack1 in regulating Hedgehog pathway.

Li Y, Sun X, Gao D, Ding Y, Liu J, Chen J, Luo J, Zhang J, Liu Q, Zhou Z.

Cell Death Differ. 2020 May 28. doi: 10.1038/s41418-020-0563-7. Online ahead of print.

PMID: 32467643

[\[Abstract\]](#)

Hyperinsulinemia Drives Epithelial Tumorigenesis by Abrogating Cell Competition.

Sanaki Y, Nagata R, Kizawa D, Léopold P, Igaki T.

Dev Cell. 2020 May 18;53(4):379-389.e5. doi: 10.1016/j.devcel.2020.04.008. Epub 2020 May 7.

PMID: 32386602

[\[Abstract\]](#)

Vesicular transport mediates the uptake of cytoplasmic proteins into mitochondria in *Drosophila melanogaster*.

Chen PL, Huang KT, Cheng CY, Li JC, Chan HY, Lin TY, Su MP, Yang WY, Chang HC, Wang HD, Chen CH.

Nat Commun. 2020 May 22;11(1):2592. doi: 10.1038/s41467-020-16335-0.

PMID: 32444642

[\[Abstract\]](#)

A distinctive sequence motif in the fourth transmembrane domain confers ZIP13 iron function in *Drosophila melanogaster*.

Zhao M, Zhou B.

Biochim Biophys Acta Mol Cell Res. 2020 Feb;1867(2):118607. doi: 10.1016/j.bbamcr.2019.118607. Epub 2019 Nov 14.

PMID: 31733261

[\[Abstract\]](#)

A Feedforward Circuit Regulates Action Selection of Pre-mating Courtship Behavior in Female *Drosophila*.

Ishimoto H, Kamikouchi A.

Curr Biol. 2020 Feb 3;30(3):396-407.e4. doi: 10.1016/j.cub.2019.11.065. Epub 2020 Jan 2.
PMID: 31902724

[\[Abstract\]](#)

Tissue Mechanics Regulate Mitotic Nuclear Dynamics during Epithelial Development.

Kirkland NJ, Yuen AC, Tozluoglu M, Hui N, Paluch EK, Mao Y.

Curr Biol. 2020 May 12:S0960-9822(20)30555-8. doi: 10.1016/j.cub.2020.04.041. Online ahead of print.
PMID: 32413305

[\[Abstract\]](#)

Extra-cellular matrix induced by steroids and aging through a G-protein coupled receptor in a Drosophila model of renal fibrosis.

Zheng W, Ocorr K, Tatar M.

Dis Model Mech. 2020 May 27;13(6):dmm041301. doi: 10.1242/dmm.041301. Online ahead of print.
PMID: 32461236

[\[Abstract\]](#)

JNK-dependent intestinal barrier failure disrupts host-microbe homeostasis during tumorigenesis.

Zhou J, Boutros M.

Proc Natl Acad Sci U S A. 2020 Apr 28;117(17):9401-9412. doi: 10.1073/pnas.1913976117. Epub 2020 Apr 10.
PMID: 32277031

[\[Abstract\]](#)

RhoBTB Proteins Regulate the Hippo Pathway by Antagonizing Ubiquitination of LKB1.

Nguyen TH, Ralbovska A, Kugler JM.

G3 (Bethesda). 2020 Apr 9;10(4):1319-1325. doi: 10.1534/g3.120.401038.
PMID: 32111652

[\[Abstract\]](#)

Mechanism underlying starvation-dependent modulation of olfactory behavior in Drosophila larva.

Slankster E, Kollala S, Baria D, Dailey-Krempel B, Jain R, Odell SR, Mathew D.

Sci Rep. 2020 Feb 20;10(1):3119. doi: 10.1038/s41598-020-60098-z.
PMID: 32080342

[\[Abstract\]](#)

Dietary Adaptation of Microbiota in Drosophila Requires NF- κ B-Dependent Control of the Translational Regulator 4E-BP.

Vandehoef C, Molaei M, Karpac J.

Cell Rep. 2020 Jun 9;31(10):107736. doi: 10.1016/j.celrep.2020.107736.
PMID: 32521261

[\[Abstract\]](#)

The Splicing Factor SF2 Is Critical for Hyperproliferation and Survival in a TORC1-Dependent Model of Early Tumorigenesis in Drosophila.

Parniewska MM, Stocker H.

Int J Mol Sci. 2020 Jun 24;21(12):E4465. doi: 10.3390/ijms21124465.

PMID: 32599686

[\[Abstract\]](#)

Identification of a molecular basis for the juvenile sleep state.

Chakravarti Dilley L, Szuperak M, Gong NN, Williams CE, Saldana RL, Garbe DS, Syed MH, Jain R, Kayser MS.

Elife. 2020 Mar 23;9:e52676. doi: 10.7554/eLife.52676.

PMID: 32202500

[\[Abstract\]](#)

Snail synchronizes endocycling in a TOR-dependent manner to coordinate entry and escape from endoreplication pausing during the Drosophila critical weight checkpoint.

Zeng J, Huynh N, Phelps B, King-Jones K.

PLoS Biol. 2020 Feb 25;18(2):e3000609. doi: 10.1371/journal.pbio.3000609. eCollection 2020 Feb.

PMID: 32097403

[\[Abstract\]](#)

The UFM1 cascade times mitosis entry associated with microcephaly.

Yu L, Li G, Deng J, Jiang X, Xue J, Zhu Y, Huang W, Tang B, Duan R.

FASEB J. 2020 Jan;34(1):1319-1330. doi: 10.1096/fj.201901751R. Epub 2019 Nov 29.

PMID: 31914610

[\[Abstract\]](#)

RabX1 Organizes a Late Endosomal Compartment that Forms Tubular Connections to Lysosomes Consistent with a "Kiss and Run" Mechanism.

Laiouar S, Berns N, Brech A, Riechmann V.

Curr Biol. 2020 Apr 6;30(7):1177-1188.e5. doi: 10.1016/j.cub.2020.01.048. Epub 2020 Feb 13.

PMID: 32059769

[\[Abstract\]](#)

Silencing of CCR4-NOT complex subunits affect heart structure and function.

Elmén L, Volpato CB, Kervadec A, Pineda S, Kalvakuri S, Alayari NN, Foco L, Pramstaller PP, Ocorr K, Rossini A, Cammarato A, Colas AR, Hicks AA, Bodmer R.

Dis Model Mech. 2020 May 29:dmm.044727. doi: 10.1242/dmm.044727. Online ahead of print.

PMID: 32471864

[\[Abstract\]](#)

The Drosophila RNA Helicase Belle (DDX3) Non-Autonomously Suppresses Germline Tumorigenesis Via Regulation of a Specific mRNA Set.

Kotov AA, Godneeva BK, Olenkina OM, Adashev VE, Trostnikov MV, Olenina LV.

Cells. 2020 Feb 26;9(3):550. doi: 10.3390/cells9030550.

PMID: 32111103

[\[Abstract\]](#)

The conserved microRNA miR-8-3p coordinates the expression of V-ATPase subunits to regulate ecdysone biosynthesis for Drosophila metamorphosis.

Lim DH, Lee S, Choi MS, Han JY, Seong Y, Na D, Kwon YS, Lee YS.

FASEB J. 2020 May;34(5):6449-6465. doi: 10.1096/fj.201901516R. Epub 2020 Mar 20.

PMID: 32196731

[\[Abstract\]](#)

Drosophila Middle-Term Memory: Amnesiac is Required for PKA Activation in the Mushroom Bodies, a Function Modulated by Neprilysin 1.

Turrel O, Rabah Y, Plaçais PY, Goguel V, Preat T.

J Neurosci. 2020 May 20;40(21):4219-4229. doi: 10.1523/JNEUROSCI.2311-19.2020. Epub 2020 Apr 17.

PMID: 32303647

[\[Abstract\]](#)

FGF signaling promotes myoblast proliferation through activation of wingless signaling.

Vishal K, Lovato TL, Bragg C, Chechenova MB, Cripps RM.

Dev Biol. 2020 Aug 1;464(1):1-10. doi: 10.1016/j.ydbio.2020.05.009. Epub 2020 May 21.

PMID: 32445643

[\[Abstract\]](#)

Discovery of aspirin-triggered eicosanoid-like mediators in a Drosophila meta-inflammation blood tumor model.

Panettieri S, Paddibhatla I, Chou J, Rajwani R, Moore RS, Goncharuk T, John G, Govind S.

J Cell Sci. 2019 Oct 28;133(5):jcs236141. doi: 10.1242/jcs.236141.

PMID: 31562189

[\[Abstract\]](#)

Protein phosphatase PP2A regulates microtubule orientation and dendrite pruning in Drosophila.

Rui M, Ng KS, Tang Q, Bu S, Yu F.

EMBO Rep. 2020 May 6;21(5):e48843. doi: 10.15252/embr.201948843. Epub 2020 Mar 18.

PMID: 32187821

[\[Abstract\]](#)

Ciao1 interacts with Crumbs and Xpd to regulate organ growth in Drosophila.

Jung J, Yeom E, Choi KW.

Cell Death Dis. 2020 May 13;11(5):365. doi: 10.1038/s41419-020-2564-3.

PMID: 32404863

[\[Abstract\]](#)

Endosomal Wnt signaling proteins control microtubule nucleation in dendrites.

Weiner AT, Seebold DY, Torres-Gutierrez P, Folker C, Swope RD, Kothe GO, Stoltz JG, Zalenski MK, Kozlowski C, Barbera DJ, Patel MA, Thyagarajan P, Shorey M, Nye DMR, Keegan M, Behari K, Song S, Axelrod JD, Rolls MM.

PLoS Biol. 2020 Mar 12;18(3):e3000647. doi: 10.1371/journal.pbio.3000647. eCollection 2020 Mar.

PMID: 32163403

[\[Abstract\]](#)

Piwi reduction in the aged niche eliminates germline stem cells via Toll-GSK3 signaling.

Lin KY, Wang WD, Lin CH, Rastegari E, Su YH, Chang YT, Liao YF, Chang YC, Pi H, Yu BY, Chen SH, Lin CY, Lu MY, Su TY, Tzou FY, Chan CC, Hsu HJ.

Nat Commun. 2020 Jun 19;11(1):3147. doi: 10.1038/s41467-020-16858-6.

PMID: 32561720

[\[Abstract\]](#)

Protein phosphatase 1 activity controls a balance between collective and single cell modes of migration.

Chen Y, Kotian N, Aranjuez G, Chen L, Messer CL, Burtscher A, Sawant K, Ramel D, Wang X, McDonald JA. Elife. 2020 May 5;9:e52979. doi: 10.7554/eLife.52979.

PMID: 32369438

[\[Abstract\]](#)

Identification of ALK in Thinness.

Orthofer M, Valsesia A, Mägi R, Wang QP, Kaczanowska J, Kozieradzki I, Leopoldi A, Cikes D, Zopf LM, Tretiakov EO, Demetz E, Hilbe R, Boehm A, Ticevic M, Nõukas M, Jais A, Spirk K, Clark T, Amann S, Lepamets M, Neumayr C, Arnold C, Dou Z, Kuhn V, Novatchkova M, Cronin SJF, Tietge UJF, Müller S, Pospisilik JA, Nagy V, Hui CC, Lazovic J, Esterbauer H, Hagelkruys A, Tancevski I, Kiefer FW, Harkany T, Haubensak W, Neely GG, Metspalu A, Hager J, Gheldof N, Penninger JM.

Cell. 2020 Jun 11;181(6):1246-1262.e22. doi: 10.1016/j.cell.2020.04.034. Epub 2020 May 21.

PMID: 32442405

[\[Abstract\]](#)

Nutrient-Driven O-GlcNAcylation Controls DNA Damage Repair Signaling and Stem/Progenitor Cell Homeostasis.

Na HJ, Akan I, Abramowitz LK, Hanover JA.

Cell Rep. 2020 May 12;31(6):107632. doi: 10.1016/j.celrep.2020.107632.

PMID: 32402277

[\[Abstract\]](#)

Homeodomain-interacting protein kinase (Hpk) plays roles in nervous system and muscle structure and function.

Wang SJH, Sinclair DAR, Kim HY, Kinsey SD, Yoo B, Shih CRY, Wong KKL, Krieger C, Harden N, Verheyen EM.

PLoS One. 2020 Mar 18;15(3):e0221006. doi: 10.1371/journal.pone.0221006. eCollection 2020.

PMID: 32187190

[\[Abstract\]](#)

Drosophila estrogen-related receptor directs a transcriptional switch that supports adult glycolysis and lipogenesis.

Beebe K, Robins MM, Hernandez EJ, Lam G, Horner MA, Thummel CS.

Genes Dev. 2020 May 1;34(9-10):701-714. doi: 10.1101/gad.335281.119. Epub 2020 Mar 12.

PMID: 32165409

[\[Abstract\]](#)

Systematic Screen for Drosophila Transcriptional Regulators Phosphorylated in Response to Insulin/mTOR Pathway.

Liu Y, Mattila J, Hietakangas V.

G3 (Bethesda). 2020 Jun 17:g3.401383.2020. doi: 10.1534/g3.120.401383. Online ahead of print.

PMID: 32554565

[\[Abstract\]](#)

Dissecting the Genetic Basis of Variation in Drosophila Sleep Using a Multiparental QTL Mapping Resource.

Smith BR, Macdonald SJ.

Genes (Basel). 2020 Mar 11;11(3):294. doi: 10.3390/genes11030294.

PMID: 32168738

[\[Abstract\]](#)

Regulation of Anisotropic Tissue Growth by Two Orthogonal Signaling Centers.

Barrio L, Milán M. Dev Cell. 2020 Mar 9;52(5):659-672.e3. doi: 10.1016/j.devcel.2020.01.017.

Epub 2020 Feb 20.

PMID: 32084357

[\[Abstract\]](#)

Drosophila TRIM32 cooperates with glycolytic enzymes to promote cell growth.

Bawa S, Brooks DS, Neville KE, Tipping M, Sagar MA, Kollhoff JA, Chawla G, Geisbrecht BV, Tennesen JM, Eliceiri KW, Geisbrecht ER.

Elife. 2020 Mar 30;9:e52358. doi: 10.7554/eLife.52358.

PMID: 32223900

[\[Abstract\]](#)

Evidence of two types of balance between stem cell mitosis and enterocyte nucleus growth in the *Drosophila* midgut.

Tamamouna V, Panagi M, Theophanous A, Demosthenous M, Michail M, Papadopoulou M, Teloni S, Pitsouli C, Apidianakis Y.

Development. 2020 Jun 8;147(11):dev189472. doi: 10.1242/dev.189472.

PMID: 32513656

[\[Abstract\]](#)

The Corazonin-PTTH Neuronal Axis Controls Systemic Body Growth by Regulating Basal Ecdysteroid Biosynthesis in *Drosophila melanogaster*.

Imura E, Shimada-Niwa Y, Nishimura T, Hückesfeld S, Schlegel P, Ohhara Y, Kondo S, Tanimoto H, Cardona A, Pankratz MJ, Niwa R.

Curr Biol. 2020 Jun 8;30(11):2156-2165.e5. doi: 10.1016/j.cub.2020.03.050. Epub 2020 May 7.

PMID: 32386525

[\[Abstract\]](#)

Nuclear receptor Ftz-f1 promotes follicle maturation and ovulation partly via bHLH/PAS transcription factor Sim.

Knapp EM, Li W, Singh V, Sun J.

Elife. 2020 Apr 27;9:e54568. doi: 10.7554/eLife.54568.

PMID: 32338596

[\[Abstract\]](#)

Tubulin-binding cofactor E-like (TBCEL), the protein product of the mulet gene, is required in the germline for the regulation of inter-flagellar microtubule dynamics during spermatid individualization.

Fabrizio JJ, Rollins J, Bazinet CW, Wegener S, Koziy I, Daniel R, Lombardo V, Pryce D, Bharrat K, Innabi E, Villanobos M, Mendoza G, Ferrara E, Rodway S, Vicioso M, Siracusa V, Dailey E, Pronovost J, Innabi S, Patel V, DeSouza N, Quaranto D, Niknejad A.

Biol Open. 2020 Feb 26;9(2):bio049080. doi: 10.1242/bio.049080.

PMID: 32033965

[\[Abstract\]](#)

Gilgamesh (Gish)/CK1 γ regulates tissue homeostasis and aging in adult *Drosophila* midgut.

Li S, Tian A, Li S, Han Y, Wang B, Jiang J.

J Cell Biol. 2020 Apr 6;219(4):e201909103. doi: 10.1083/jcb.201909103.

PMID: 32328627

[\[Abstract\]](#)

UBR5 Is Coamplified with MYC in Breast Tumors and Encodes an Ubiquitin Ligase That Limits MYC-Dependent Apoptosis.

Qiao X, Liu Y, Prada ML, Mohan AK, Gupta A, Jaiswal A, Sharma M, Merisaari J, Haikala HM, Talvinen K, Yetukuri L, Pylvänäinen JW, Klefström J, Kronqvist P, Meinander A, Aittokallio T, Hietakangas V, Eilers M, Westermarck J.

Cancer Res. 2020 Apr 1;80(7):1414-1427. doi: 10.1158/0008-5472.CAN-19-1647. Epub 2020 Feb 6.

PMID: 32029551

[\[Abstract\]](#)

Adaptive Evolution Targets a piRNA Precursor Transcription Network.

Parhad SS, Yu T, Zhang G, Rice NP, Weng Z, Theurkauf WE.

Cell Rep. 2020 Feb 25;30(8):2672-2685.e5. doi: 10.1016/j.celrep.2020.01.109.

PMID: 32101744

[\[Abstract\]](#)

Differential activation of eMI by distinct forms of cellular stress.

Mesquita A, Glenn J, Jenny A.

Autophagy. 2020 Jun 19. doi: 10.1080/15548627.2020.1783833. Online ahead of print.

PMID: 32559125

[\[Abstract\]](#)

Von Hippel-Lindau tumor suppressor (VHL) stimulates TOR signaling by interacting with phosphoinositide 3-kinase (PI3K).

Hwang SH, Bang S, Kim W, Chung J.

J Biol Chem. 2020 Feb 21;295(8):2336-2347. doi: 10.1074/jbc.RA119.011596. Epub 2020 Jan 20.

PMID: 31959630

[\[Abstract\]](#)

Adar RNA editing-dependent and -independent effects are required for brain and innate immune functions in Drosophila.

Deng P, Khan A, Jacobson D, Sambrani N, McGurk L, Li X, Jayasree A, Hejatko J, Shohat-Ophir G, O'Connell MA, Li JB, Keegan LP.

Nat Commun. 2020 Mar 27;11(1):1580. doi: 10.1038/s41467-020-15435-1.

PMID: 32221286

[\[Abstract\]](#)

A Switch in Tissue Stem Cell Identity Causes Neuroendocrine Tumors in Drosophila Gut.

Li Z, Guo X, Huang H, Wang C, Yang F, Zhang Y, Wang J, Han L, Jin Z, Cai T, Xi R.

Cell Rep. 2020 Feb 11;30(6):1724-1734.e4. doi: 10.1016/j.celrep.2020.01.041.

PMID: 32049006

[\[Abstract\]](#)

A Toll-receptor map underlies structural brain plasticity.

Li G, Forero MG, Wentzell JS, Durmus I, Wolf R, Anthony NC, Parker M, Jiang R, Hasenauer J, Strausfeld NJ, Heisenberg M, Hidalgo A.

Elife. 2020 Feb 18;9:e52743. doi: 10.7554/eLife.52743.

PMID: 32066523

[\[Abstract\]](#)

Imp/IGF2BP levels modulate individual neural stem cell growth and division through myc mRNA stability.

Samuels TJ, Järvelin AI, Ish-Horowicz D, Davis I.

Elife. 2020 Jan 14;9:e51529. doi: 10.7554/eLife.51529.

PMID: 31934860

[\[Abstract\]](#)

Drosophila ELYS regulates Dorsal dynamics during development.

Mehta SJK, Kumar V, Mishra RK.

J Biol Chem. 2020 Feb 21;295(8):2421-2437. doi: 10.1074/jbc.RA119.009451. Epub 2020 Jan 15.

PMID: 31941789

[\[Abstract\]](#)

Specific Isoforms of the Guanine-Nucleotide Exchange Factor dPix Couple Neuromuscular Synapse Growth to Muscle Growth.

Ho CH, Treisman JE.

Dev Cell. 2020 May 30:S1534-5807(20)30404-4. doi: 10.1016/j.devcel.2020.05.015. Online ahead of print.

PMID: 32516570

[\[Abstract\]](#)

A novel transcriptional cascade is involved in Fzr-mediated endoreplication.

Qian W, Li Z, Song W, Zhao T, Wang W, Peng J, Wei L, Xia Q, Cheng D.

Nucleic Acids Res. 2020 May 7;48(8):4214-4229. doi: 10.1093/nar/gkaa158.

PMID: 32182338

[\[Abstract\]](#)

Temporal flexibility of gene regulatory network underlies a novel wing pattern in flies.

Dufour HD, Koshikawa S, Finet C.

Proc Natl Acad Sci U S A. 2020 May 26;117(21):11589-11596. doi: 10.1073/pnas.2002092117. Epub 2020 May 11.

PMID: 32393634

[\[Abstract\]](#)

Homeostatic maintenance and age-related functional decline in the Drosophila ear.

Keder A, Tardieu C, Malong L, Filia A, Kashkenbayeva A, Newton F, Georgiades M, Gale JE, Lovett M, Jarman AP, Albert JT.

Sci Rep. 2020 May 4;10(1):7431. doi: 10.1038/s41598-020-64498-z.

PMID: 32366993

[\[Abstract\]](#)

Basigin Associates with Integrin in Order to Regulate Perineurial Glia and Drosophila Nervous System Morphology.

Hunter AC, Petley-Ragan LM, Das M, Auld VJ.

J Neurosci. 2020 Apr 22;40(17):3360-3373. doi: 10.1523/JNEUROSCI.1397-19.2020. Epub 2020 Apr 7.

PMID: 32265259

[\[Abstract\]](#)

Heterophilic cell-cell adhesion of atypical cadherins Fat and Dachshous regulate epithelial cell size dynamics during Drosophila thorax morphogenesis.

Kumar A, Rizvi MS, Athilingam T, Parihar SS, Sinha P.

Mol Biol Cell. 2020 Mar 19;31(7):546-560. doi: 10.1091/mbc.E19-08-0468. Epub 2019 Dec 26.

PMID: 31877063

[\[Abstract\]](#)

The Drosophila Ortholog of Mammalian Transcription Factor Sox9 Regulates Intestinal Homeostasis and Regeneration at an Appropriate Level.

Jin Z, Chen J, Huang H, Wang J, Lv J, Yu M, Guo X, Zhang Y, Cai T, Xi R.

Cell Rep. 2020 May 26;31(8):107683. doi: 10.1016/j.celrep.2020.107683.

PMID: 32460025

[\[Abstract\]](#)

Proteome Analysis of Isolated Podocytes Reveals Stress Responses in Glomerular Sclerosis.

Koehler S, Kuczkowski A, Kuehne L, Jüngst C, Hoehne M, Grahammer F, Eddy S, Kretzler M, Beck BB, Höhfeld J, Schermer B, Benzing T, Brinkkoetter PT, Rinschen MM.

J Am Soc Nephrol. 2020 Mar;31(3):544-559. doi: 10.1681/ASN.2019030312. Epub 2020 Feb 11.

PMID: 32047005

[\[Abstract\]](#)

Sestrins are evolutionarily conserved mediators of exercise benefits.

Kim M, Sujkowski A, Namkoong S, Gu B, Cobb T, Kim B, Kowalsky AH, Cho CS, Semple I, Ro SH, Davis C, Brooks SV, Karin M, Wessells RJ, Lee JH.

Nat Commun. 2020 Jan 13;11(1):190. doi: 10.1038/s41467-019-13442-5.

PMID: 31929512

[\[Abstract\]](#)

Fruit Fly, *Drosophila melanogaster*, as an In Vivo Tool to Study the Biological Effects of Proton Irradiation.

Nakajima K, Gao T, Kume K, Iwata H, Hirai S, Omachi C, Tomita J, Ogino H, Naito M, Shibamoto Y. Radiat Res. 2020 Apr 28. doi: 10.1667/RADE-20-00006.1. Online ahead of print.
PMID: 32343638

[\[Abstract\]](#)

Dynamic neurotransmitter specific transcription factor expression profiles during *Drosophila* development.

Estacio-Gómez A, Hassan A, Walmsley E, Le LW, Southall TD. Biol Open. 2020 Jun 3;9(5):bio052928. doi: 10.1242/bio.052928.
PMID: 32493733

[\[Abstract\]](#)

Nuclear Export of Cyclin B Mediated by the Nup62 Complex Is Required for Meiotic Initiation in *Drosophila* Males.

Okazaki R, Yamazoe K, Inoue YH. Cells. 2020 Jan 22;9(2):270. doi: 10.3390/cells9020270.
PMID: 31979075

[\[Abstract\]](#)

Crumbs, Galla and Xpd are required for kinesin-5 regulation in mitosis and organ growth in *Drosophila*.

Hwang JH, Vuong LT, Choi KW. J Cell Sci. 2020 May 22;jcs.246801. doi: 10.1242/jcs.246801. Online ahead of print.
PMID: 32501288

[\[Abstract\]](#)

Tolerance to Hypoxia Is Promoted by FOXO Regulation of the Innate Immunity Transcription Factor NF- κ B/Relish in *Drosophila*.

Barretto EC, Polan DM, Beevor-Potts AN, Lee B, Grewal SS. Genetics. 2020 Jun 8;genetics.303219.2020. doi: 10.1534/genetics.120.303219. Online ahead of print.
PMID: 32513813

[\[Abstract\]](#)

A microtubule polymerase is required for microtubule orientation and dendrite pruning in *Drosophila*.

Tang Q, Rui M, Bu S, Wang Y, Chew LY, Yu F. EMBO J. 2020 May 18;39(10):e103549. doi: 10.15252/embj.2019103549. Epub 2020 Apr 8.
PMID: 32267553

[\[Abstract\]](#)

Disruption of EGF Feedback by Intestinal Tumors and Neighboring Cells in *Drosophila*.

Ngo S, Liang J, Su YH, O'Brien LE.

Curr Biol. 2020 Apr 20;30(8):1537-1546.e3. doi: 10.1016/j.cub.2020.01.082. Epub 2020 Apr 2.

PMID: 32243854

[\[Abstract\]](#)

Promoter-Proximal Chromatin Domain Insulator Protein BEAF Mediates Local and Long-Range Communication with a Transcription Factor and Directly Activates a Housekeeping Promoter in *Drosophila*.

Dong Y, Avva SVSP, Maharjan M, Jacobi J, Hart CM.

Genetics. 2020 May;215(1):89-101. doi: 10.1534/genetics.120.303144. Epub 2020 Mar 16.

PMID: 32179582

[\[Abstract\]](#)

Special vulnerability of somatic niche cells to transposable element activation in *Drosophila* larval ovaries.

Sokolova OA, Mikhaleva EA, Kharitonov SL, Abramov YA, Gvozdev VA, Klenov MS.

Sci Rep. 2020 Jan 23;10(1):1076. doi: 10.1038/s41598-020-57901-2.

PMID: 31974416

[\[Abstract\]](#)

Norpa Signalling and the Seasonal Circadian Locomotor Phenotype in *Drosophila*.

Breda C, Rosato E, Kyriacou CP.

Biology (Basel). 2020 Jun 16;9(6):E130. doi: 10.3390/biology9060130.

PMID: 32560221

[\[Abstract\]](#)

tRNA 2'-O-methylation by a duo of TRM7/FTSJ1 proteins modulates small RNA silencing in *Drosophila*.

Angelova MT, Dimitrova DG, Da Silva B, Marchand V, Jacquier C, Achour C, Brazane M, Goyenvallé C, Bourguignon-Igel V, Shehzada S, Khouider S, Lence T, Guérineau V, Roignant JY, Antoniewski C, Teysset L, Bregeon D, Motorin Y, Schaefer MR, Carré C.

Nucleic Acids Res. 2020 Feb 28;48(4):2050-2072. doi: 10.1093/nar/gkaa002.

PMID: 31943105

[\[Abstract\]](#)

Identification of CR43467 encoding a long non-coding RNA as a novel genetic interactant with dFIG4, a CMT-causing gene.

Shimada S, Muraoka Y, Ibaraki K, Takano-Shimizu-Kouno T, Yoshida H, Yamaguchi M.

Exp Cell Res. 2020 Jan 1;386(1):111711. doi: 10.1016/j.yexcr.2019.111711. Epub 2019 Nov 5.

PMID: 31704059

[\[Abstract\]](#)

An intestinal zinc sensor regulates food intake and developmental growth.

Redhai S, Pilgrim C, Gaspar P, Giesen LV, Lopes T, Riabinina O, Grenier T, Milona A, Chanana B, Swadling JB, Wang YF, Dahalan F, Yuan M, Wilsch-Brauninger M, Lin WH, Dennison N, Capriotti P, Lawniczak MKN, Baines RA, Warnecke T, Windbichler N, Leulier F, Bellono NW, Miguel-Aliaga I.

Nature. 2020 Apr;580(7802):263-268. doi: 10.1038/s41586-020-2111-5. Epub 2020 Mar 18.

PMID: 32269334

[\[Abstract\]](#)

Peroxisome Elevation Induces Stem Cell Differentiation and Intestinal Epithelial Repair.

Du G, Xiong L, Li X, Zhuo Z, Zhuang X, Yu Z, Wu L, Xiao D, Liu Z, Jie M, Liu X, Luo G, Guo Z, Chen H.

Dev Cell. 2020 Apr 20;53(2):169-184.e11. doi: 10.1016/j.devcel.2020.03.002. Epub 2020 Apr 2.

PMID: 32243783

[\[Abstract\]](#)

Anandamide Metabolites Protect against Seizures through the TRP Channel Water Witch in *Drosophila melanogaster*.

Jacobs JA, Sehgal A.

Cell Rep. 2020 Jun 2;31(9):107710. doi: 10.1016/j.celrep.2020.107710.

PMID: 32492422

[\[Abstract\]](#)

De novo mutations in TOMM70, a receptor of the mitochondrial import translocase, cause neurological impairment.

Dutta D, Briere LC, Kanca O, Marcogliese PC, Walker MA, High FA, Vanderver A, Krier J, Carmichael N, Callahan C, Taft RJ, Simons C, Helman G, Network UD, Wangler MF, Yamamoto S, Sweetser DA, Bellen HJ.

Hum Mol Genet. 2020 Jun 3;29(9):1568-1579. doi: 10.1093/hmg/ddaa081.

PMID: 32356556

[\[Abstract\]](#)

Framework with cytoskeletal actin filaments forming insect footpad hairs inspires biomimetic adhesive device design.

Kimura KI, Minami R, Yamahama Y, Hariyama T, Hosoda N.

Commun Biol. 2020 May 29;3(1):272. doi: 10.1038/s42003-020-0995-0.

PMID: 32472026

[\[Abstract\]](#)

O-GlcNAcase contributes to cognitive function in *Drosophila*.

Muha V, Fenckova M, Ferenbach AT, Catinozzi M, Eidhof I, Storkebaum E, Schenck A, van Aalten DMF.

J Biol Chem. 2020 Jun 26;295(26):8636-8646. doi: 10.1074/jbc.RA119.010312. Epub 2020 Feb 24.

PMID: 32094227

[\[Abstract\]](#)

A role for triglyceride lipase brummer in the regulation of sex differences in *Drosophila* fat storage and breakdown.

Wat LW, Chao C, Bartlett R, Buchanan JL, Millington JW, Chih HJ, Chowdhury ZS, Biswas P, Huang V, Shin LJ, Wang LC, Gauthier ML, Barone MC, Montooth KL, Welte MA, Rideout EJ.

PLoS Biol. 2020 Jan 21;18(1):e3000595. doi: 10.1371/journal.pbio.3000595. eCollection 2020 Jan.

PMID: 31961851

[\[Abstract\]](#)

Diphthamide modification of eEF2 is required for gut tumor-like hyperplasia induced by oncogenic Ras.

Tsuda-Sakurai K, Kimura M, Miura M.

Genes Cells. 2020 Feb;25(2):76-85. doi: 10.1111/gtc.12742. Epub 2020 Jan 5.

PMID: 31828897

[\[Abstract\]](#)

The bicistronic gene würmchen encodes two essential components for epithelial development in *Drosophila*.

Königsmann T, Parfentev I, Urlaub H, Riedel D, Schuh R.

Dev Biol. 2020 Jul 1;463(1):53-62. doi: 10.1016/j.ydbio.2020.04.005. Epub 2020 May 1.

PMID: 32361005

[\[Abstract\]](#)

Interactions between amyloid precursor protein-like (APPL) and MAGUK scaffolding proteins contribute to appetitive long-term memory in *Drosophila melanogaster*.

Silva B, Niehage C, Maglione M, Hoflack B, Sigrist SJ, Wassmer T, Pavlowsky A, Preat T.

J Neurogenet. 2020 Mar;34(1):92-105. doi: 10.1080/01677063.2020.1712597. Epub 2020 Jan 22.

PMID: 31965876

[\[Abstract\]](#)

Structural Remodeling of Active Zones Is Associated with Synaptic Homeostasis.

Hong H, Zhao K, Huang S, Huang S, Yao A, Jiang Y, Sigrist S, Zhao L, Zhang YQ.

J Neurosci. 2020 Apr 1;40(14):2817-2827. doi: 10.1523/JNEUROSCI.2002-19.2020. Epub 2020 Mar 2.

PMID: 32122953

[\[Abstract\]](#)

***Drosophila melanogaster* as a model for arbovirus infection of adult salivary glands.**

Palmer WH, Dittmar M, Gordesky-Gold B, Hofmann J, Cherry S.

Virology. 2020 Apr;543:1-6. doi: 10.1016/j.virol.2020.01.010. Epub 2020 Jan 25.

PMID: 32056841

[\[Abstract\]](#)

An Insulin-Sensitive Circular RNA that Regulates Lifespan in *Drosophila*.

Weigelt CM, Sehgal R, Tain LS, Cheng J, Eßer J, Pahl A, Dieterich C, Grönke S, Partridge L.
Mol Cell. 2020 Jun 19;S1097-2765(20)30396-8. doi: 10.1016/j.molcel.2020.06.011. Online ahead of print.

PMID: 32592682

[\[Abstract\]](#)

Serotonin transporter dependent modulation of food-seeking behavior.

He J, Hommen F, Lauer N, Balmert S, Scholz H.

PLoS One. 2020 Jan 24;15(1):e0227554. doi: 10.1371/journal.pone.0227554. eCollection 2020.

PMID: 31978073

[\[Abstract\]](#)

Heparan Sulfate Structure Affects Autophagy, Lifespan, Responses to Oxidative Stress, and Cell Degeneration in Drosophila parkin Mutants.

Reynolds-Peterson C, Xu J, Zhao N, Cruse C, Yonel B, Trasorras C, Toyoda H, Kinoshita-Toyoda A, Dobson J, Schultheis N, Jiang M, Selleck S.

G3 (Bethesda). 2020 Jan 7;10(1):129-141. doi: 10.1534/g3.119.400730.

PMID: 31672849

[\[Abstract\]](#)

Egfr Signaling Is a Major Regulator of Ecdysone Biosynthesis in the Drosophila Prothoracic Gland.

Cruz J, Martín D, Franch-Marro X.

Curr Biol. 2020 Apr 20;30(8):1547-1554.e4. doi: 10.1016/j.cub.2020.01.092. Epub 2020 Mar 26.

PMID: 32220314

[\[Abstract\]](#)

Alpha- and beta-adrenergic octopamine receptors in muscle and heart are required for Drosophila exercise adaptations.

Sujkowski A, Gretzinger A, Soave N, Todi SV, Wessells R.

PLoS Genet. 2020 Jun 24;16(6):e1008778. doi: 10.1371/journal.pgen.1008778. Online ahead of print.

PMID: 32579604

[\[Abstract\]](#)

Genetic interaction screen for severe neurodevelopmental disorders reveals a functional link between Ube3a and Mef2 in Drosophila melanogaster.

Straub J, Gregor A, Sauerer T, Fliedner A, Distel L, Suchy C, Ekici AB, Ferrazzi F, Zweier C.

Sci Rep. 2020 Jan 27;10(1):1204. doi: 10.1038/s41598-020-58182-5.

PMID: 31988313

[\[Abstract\]](#)

Prickle isoforms determine handedness of helical morphogenesis.

Cho B, Song S, Axelrod JD.

Elife. 2020 Jan 14;9:e51456. doi: 10.7554/eLife.51456.

PMID: 31934858

[\[Abstract\]](#)

Genotoxic stress triggers the activation of IRE1 α -dependent RNA decay to modulate the DNA damage response.

Dufey E, Bravo-San Pedro JM, Eggers C, González-Quiroz M, Urrea H, Sagredo AI, Sepulveda D, Pihán P, Carreras-Sureda A, Hazari Y, Sagredo EA, Gutierrez D, Valls C, Papaioannou A, Acosta-Alvear D, Campos G, Domingos PM, Pedoux R, Chevet E, Alvarez A, Godoy P, Walter P, Glavic A, Kroemer G, Hetz C.

Nat Commun. 2020 May 14;11(1):2401. doi: 10.1038/s41467-020-15694-y.

PMID: 32409639

[\[Abstract\]](#)

Supracellular Actomyosin Mediates Cell-Cell Communication and Shapes Collective Migratory Morphology.

Wang H, Guo X, Wang X, Wang X, Chen J.

iScience. 2020 Jun 26;23(6):101204. doi: 10.1016/j.isci.2020.101204. Epub 2020 May 27.

PMID: 32535019

[\[Abstract\]](#)

Regulation of epithelial integrity and organ growth by Tctp and Coracle in Drosophila.

Lee SR, Hong ST, Choi KW.

PLoS Genet. 2020 Jun 19;16(6):e1008885. doi: 10.1371/journal.pgen.1008885. eCollection 2020 Jun.

PMID: 32559217

[\[Abstract\]](#)

Profiling of the muscle-specific dystroglycan interactome reveals the role of Hippo signaling in muscular dystrophy and age-dependent muscle atrophy.

Yatsenko AS, Kucherenko MM, Xie Y, Aweida D, Urlaub H, Scheibe RJ, Cohen S, Shcherbata HR.

BMC Med. 2020 Jan 21;18(1):8. doi: 10.1186/s12916-019-1478-3.

PMID: 31959160

[\[Abstract\]](#)

EGFR Signaling Stimulates Autophagy to Regulate Stem Cell Maintenance and Lipid Homeostasis in the Drosophila Testis.

Sênos Demarco R, Uyemura BS, Jones DL.

Cell Rep. 2020 Jan 28;30(4):1101-1116.e5. doi: 10.1016/j.celrep.2019.12.086.

PMID: 31995752

[\[Abstract\]](#)

Loss of HSPA9 induces peroxisomal degradation by increasing pexophagy.

Jo DS, Park SJ, Kim AK, Park NY, Kim JB, Bae JE, Park HJ, Shin JH, Chang JW, Kim PK, Jung YK, Koh JY, Choe SK, Lee KS, Cho DH.

Autophagy. 2020 Jan 22;1-15. doi: 10.1080/15548627.2020.1712812. Online ahead of print.

PMID: 31964216

[\[Abstract\]](#)

Drosophila models of pathogenic copy-number variant genes show global and non-neuronal defects during development.

Yusuff T, Jensen M, Yennawar S, Pizzo L, Karthikeyan S, Gould DJ, Sarker A, Gedvilaite E, Matsui Y, Iyer J, Lai ZC, Girirajan S.

PLoS Genet. 2020 Jun 24;16(6):e1008792. doi: 10.1371/journal.pgen.1008792. eCollection 2020 Jun.

PMID: 32579612

[\[Abstract\]](#)

Mask, a component of the Hippo pathway, is required for Drosophila eye morphogenesis.

DeAngelis MW, McGhie EW, Coolon JD, Johnson RI.

Dev Biol. 2020 Aug 1;464(1):53-70. doi: 10.1016/j.ydbio.2020.05.002. Epub 2020 May 25.

PMID: 32464117

[\[Abstract\]](#)

Absence of SCAPER causes male infertility in humans and Drosophila by modulating microtubule dynamics during meiosis.

Wormser O, Levy Y, Bakhrat A, Bonaccorsi S, Graziadio L, Gatti M, AbuMadigham A, McKenney RJ, Okada K, El Riati S, Har-Vardi I, Huleihel M, Levitas E, Birk OS, Abdu U.

J Med Genet. 2020 Jun 11:jmedgenet-2020-106946. doi: 10.1136/jmedgenet-2020-106946. Online ahead of print.

PMID: 32527956

[\[Abstract\]](#)

The septate junction protein Tetraspanin 2A is critical to the structure and function of Malpighian tubules in Drosophila melanogaster.

Beyenbach KW, Schöne F, Breitsprecher LF, Tiburcy F, Furuse M, Izumi Y, Meyer H, Jonusaite S, Rodan AR, Paululat A.

Am J Physiol Cell Physiol. 2020 Jun 1;318(6):C1107-C1122. doi: 10.1152/ajpcell.00061.2020. Epub 2020 Apr 8.

PMID: 32267718

[\[Abstract\]](#)

Hedgehog signaling promotes lipolysis in adipose tissue through directly regulating Bmm/ATGL lipase.

Zhang J, Liu Y, Jiang K, Jia J.

Dev Biol. 2020 Jan 1;457(1):128-139. doi: 10.1016/j.ydbio.2019.09.009. Epub 2019 Sep 21.

PMID: 31550483

[\[Abstract\]](#)

The septate junction protein Mesh is required for epithelial morphogenesis, ion transport, and paracellular permeability in the Drosophila Malpighian tubule.

Jonusaite S, Beyenbach KW, Meyer H, Paululat A, Izumi Y, Furuse M, Rodan AR.

Am J Physiol Cell Physiol. 2020 Mar 1;318(3):C675-C694. doi: 10.1152/ajpcell.00492.2019. Epub 2020 Jan 8.

PMID: 31913700

[\[Abstract\]](#)

Rab11 activation by Ikk2 kinase is required for dendrite pruning in Drosophila sensory neurons.

Lin T, Kao HH, Chou CH, Chou CY, Liao YC, Lee HH.

PLoS Genet. 2020 Feb 14;16(2):e1008626. doi: 10.1371/journal.pgen.1008626. eCollection 2020 Feb.

PMID: 32059017

[\[Abstract\]](#)

ATF4-Induced Warburg Metabolism Drives Over-Proliferation in Drosophila.

Sorge S, Theelke J, Yildirim K, Hertenstein H, McMullen E, Müller S, Altbürger C, Schirmeier S, Lohmann I.

Cell Rep. 2020 May 19;31(7):107659. doi: 10.1016/j.celrep.2020.107659.

PMID: 32433968

[\[Abstract\]](#)

Circuits that encode and guide alcohol-associated preference.

Scaplen KM, Talay M, Nunez KM, Salamon S, Waterman AG, Gang S, Song SL, Barnea G, Kaun KR.

Elife. 2020 Jun 4;9:e48730. doi: 10.7554/eLife.48730.

PMID: 32497004

[\[Abstract\]](#)

Cell-type-specific mechanical response and myosin dynamics during retinal lens development in Drosophila.

Blackie L, Walther RF, Staddon MF, Banerjee S, Pichaud F.

Mol Biol Cell. 2020 Jun 15;31(13):1355-1369. doi: 10.1091/mbc.E19-09-0523. Epub 2020 Apr 22.

PMID: 32320320

[\[Abstract\]](#)

O-GlcNAcylation Dampens Dpp/BMP Signaling to Ensure Proper Drosophila Embryonic Development.

Moulton MJ, Humphreys GB, Kim A, Letsou A.

Dev Cell. 2020 May 4;53(3):330-343.e3. doi: 10.1016/j.devcel.2020.04.001.

PMID: 32369743

[\[Abstract\]](#)

Hyd ubiquitinates the NF-κB co-factor Akirin to operate an effective immune response in Drosophila.

Cammarata-Mouchtouris A, Nguyen XH, Acker A, Bonnay F, Goto A, Orian A, Fauvarque MO, Boutros M, Reichhart JM, Matt N.

PLoS Pathog. 2020 Apr 27;16(4):e1008458. doi: 10.1371/journal.ppat.1008458. eCollection 2020 Apr.

PMID: 32339205

[\[Abstract\]](#)

The Mi-2 nucleosome remodeler and the Rpd3 histone deacetylase are involved in piRNA-guided heterochromatin formation.

Mugat B, Nicot S, Varela-Chavez C, Jourdan C, Sato K, Basyuk E, Juge F, Siomi MC, Pélisson A, Chambeyron S.

Nat Commun. 2020 Jun 4;11(1):2818. doi: 10.1038/s41467-020-16635-5.

PMID: 32499524

[\[Abstract\]](#)

Proteomic mapping of Drosophila transgenic elav.L-GAL4/+ brain as a tool to illuminate neuropathology mechanisms.

Velentzas AD, Katarachia SA, Sagioglou NE, Tsioka MM, Anagnostopoulos AK, Mpakou VE, Theotoki EI, Giannopoulou AF, Keramaris KE, Papassideri IS, Tsangaris GT, Stravopodis DJ.

Sci Rep. 2020 Mar 25;10(1):5430. doi: 10.1038/s41598-020-62510-0.

PMID: 32214222

[\[Abstract\]](#)

Control of tissue morphogenesis by the HOX gene Ultrabithorax.

Diaz-de-la-Loza MD, Loker R, Mann RS, Thompson BJ.

Development. 2020 Mar 2;147(5):dev184564. doi: 10.1242/dev.184564.

PMID: 32122911

[\[Abstract\]](#)

Salt inducible kinases as novel Notch interactors in the developing Drosophila retina.

Şahin HB, Sayın S, Holder M, Buğra K, Çelik A.

PLoS One. 2020 Jun 15;15(6):e0234744. doi: 10.1371/journal.pone.0234744. eCollection 2020.

PMID: 32542037

[\[Abstract\]](#)

PGC1 α Controls Sucrose Taste Sensitization in Drosophila.

Wang QP, Lin YQ, Lai ML, Su Z, Oyston LJ, Clark T, Park SJ, Khuong TM, Lau MT, Shenton V, Shi YC, James DE, Ja WW, Herzog H, Simpson SJ, Neely GG.

Cell Rep. 2020 Apr 7;31(1):107480. doi: 10.1016/j.celrep.2020.03.044.

PMID: 32268099

[\[Abstract\]](#)

Improving Efficiency Assessment of Psychiatric Halfway Houses: A Context-Dependent Data Envelopment Analysis Approach.

Shen CW, Hsu CH, Lung FW, Ly PTM.

Healthcare (Basel). 2020 Jun 28;8(3):E189. doi: 10.3390/healthcare8030189.

PMID: 32605231

[\[Abstract\]](#)

The neuropeptide Drosulfakinin regulates social isolation-induced aggression in Drosophila.

Agrawal P, Kao D, Chung P, Looger LL.

J Exp Biol. 2020 Jan 29;223(Pt 2):jeb207407. doi: 10.1242/jeb.207407.

PMID: 31900346

[\[Abstract\]](#)

Nuclear Argonaute Piwi Gene Mutation Affects rRNA by Inducing rRNA Fragment Accumulation, Antisense Expression, and Defective Processing in Drosophila Ovaries.

Stolyarenko AD.

Int J Mol Sci. 2020 Feb 7;21(3):1119. doi: 10.3390/ijms21031119.

PMID: 32046213

[\[Abstract\]](#)

Polarized sorting of Patched enables cytoneme-mediated Hedgehog reception in the Drosophila wing disc.

González-Méndez L, Gradilla AC, Sánchez-Hernández D, González E, Aguirre-Tamaral A, Jiménez-Jiménez C, Guerra M, Aguilar G, Andrés G, Falcón-Pérez JM, Guerrero I.

EMBO J. 2020 Jun 2;39(11):e103629. doi: 10.15252/embj.2019103629. Epub 2020 Apr 20.

PMID: 32311148

[\[Abstract\]](#)

The adipokine NimrodB5 regulates peripheral hematopoiesis in Drosophila.

Ramond E, Petrigani B, Dudzic JP, Boquete JP, Poidevin M, Kondo S, Lemaitre B.

FEBS J. 2020 Feb 3. doi: 10.1111/febs.15237. Online ahead of print.

PMID: 32009293

[\[Abstract\]](#)

Trpml controls actomyosin contractility and couples migration to phagocytosis in fly macrophages.

Edwards-Jorquera SS, Bosveld F, Bellaïche YA, Lennon-Duménil AM, Glavic Á.

J Cell Biol. 2020 Mar 2;219(3):e201905228. doi: 10.1083/jcb.201905228.

PMID: 31940424

[\[Abstract\]](#)

Intimate functional interactions between TGS1 and the Smn complex revealed by an analysis of the Drosophila eye development.

Maccallini P, Bavasso F, Scatolini L, Bucciarelli E, Noviello G, Lisi V, Palumbo V, D'Angeli S, Cacchione S, Cenci G, Ciapponi L, Wakefield JG, Gatti M, Raffa GD.

PLoS Genet. 2020 May 26;16(5):e1008815. doi: 10.1371/journal.pgen.1008815. eCollection 2020 May. PMID: 32453722

[\[Abstract\]](#)

Genomic adaptations to aquatic and aerial life in mayflies and the origin of insect wings.

Almudi I, Vizueta J, Wyatt CDR, de Mendoza A, Marlétaz F, Firbas PN, Feuda R, Masiero G, Medina P, Alcaina-Caro A, Cruz F, Gómez-Garrido J, Gut M, Alioto TS, Vargas-Chavez C, Davie K, Misof B, González J, Aerts S, Lister R, Paps J, Rozas J, Sánchez-Gracia A, Irimia M, Maeso I, Casares F.

Nat Commun. 2020 May 26;11(1):2631. doi: 10.1038/s41467-020-16284-8.

PMID: 32457347

[\[Abstract\]](#)

Drosophila Prp40 localizes to the histone locus body and regulates gene transcription and development.

Prieto-Sánchez S, Moreno-Castro C, Hernández-Munain C, Suñé C.

J Cell Sci. 2020 Apr 7;133(7):jcs239509. doi: 10.1242/jcs.239509.

PMID: 32094262

[\[Abstract\]](#)

Actin-microtubule crosslinker Pod-1 tunes PAR-1 signaling to control synaptic development and tau-mediated synaptic toxicity.

Kang HY, Kim HJ, Kim K, Oh SI, Yoon S, Kim J, Park S, Cheon Y, Her S, Lee M, Lu B, Lee S.

Neurobiol Aging. 2020 Jun;90:93-98. doi: 10.1016/j.neurobiolaging.2020.02.005. Epub 2020 Feb 14.

PMID: 32169355

[\[Abstract\]](#)

Coordination of cytoskeletal dynamics and cell behaviour during Drosophila abdominal morphogenesis.

Pulido Companys P, Norris A, Bischoff M.

J Cell Sci. 2020 Mar 30;133(6):jcs235325. doi: 10.1242/jcs.235325.

PMID: 32229579

[\[Abstract\]](#)

A dual role of dLsd1 in oogenesis: regulating developmental genes and repressing transposons.

Lepesant JM, Lampietro C, Galeota E, Augé B, Aguirrenbengoa M, Mercé C, Chaubet C, Rocher V, Haenlin M, Waltzer L, Pelizzola M, Di Stefano L.

Nucleic Acids Res. 2020 Feb 20;48(3):1206-1224. doi: 10.1093/nar/gkz1142.

PMID: 31799607

[\[Abstract\]](#)

Usp14 is required for spermatogenesis and ubiquitin stress responses in *Drosophila melanogaster*.

Kovács L, Nagy Á, Pál M, Deák P.

J Cell Sci. 2020 Jan 23;133(2):jcs237511. doi: 10.1242/jcs.237511.

PMID: 31974276

[\[Abstract\]](#)

A miRNA screen procedure identifies garz as an essential factor in adult glia functions and validates *Drosophila* as a beneficial 3Rs model to study glial functions and GBF1 biology.

Gonçalves-Pimentel C, Mazaud D, Kottler B, Proelss S, Hirth F, Fanto M.

F1000Res. 2020 May 1;9:317. doi: 10.12688/f1000research.23154.1. eCollection 2020.

PMID: 32595956

[\[Abstract\]](#)

Decapentaplegic signaling regulates Wingless ligand production and target activation during *Drosophila* wing development.

Li Y, Zhang F, Jiang N, Liu T, Shen J, Zhang J.

FEBS Lett. 2020 Apr;594(7):1176-1186. doi: 10.1002/1873-3468.13713. Epub 2019 Dec 25.

PMID: 31814119

[\[Abstract\]](#)

Modulation of Sex Pheromone Discrimination by A UDP-Glycosyltransferase in *Drosophila melanogaster*.

Fraichard S, Legendre A, Lucas P, Chauvel I, Faure P, Neiers F, Artur Y, Briand L, Ferveur JF, Heydel JM.

Genes (Basel). 2020 Feb 25;11(3):237. doi: 10.3390/genes11030237.

PMID: 32106439

[\[Abstract\]](#)

Carbon Monoxide, a Retrograde Messenger Generated in Postsynaptic Mushroom Body Neurons, Evokes Noncanonical Dopamine Release.

Ueno K, Morstein J, Ofusa K, Naganos S, Suzuki-Sawano E, Minegishi S, Rezgui SP, Kitagishi H, Michel BW, Chang CJ, Horiuchi J, Saitoe M.

J Neurosci. 2020 Apr 29;40(18):3533-3548. doi: 10.1523/JNEUROSCI.2378-19.2020. Epub 2020 Apr 6.

PMID: 32253360

[\[Abstract\]](#)

An early endosome-derived retrograde trafficking pathway promotes secretory granule maturation.

Ma CJ, Yang Y, Kim T, Chen CH, Polevoy G, Vissa M, Burgess J, Brill JA.

J Cell Biol. 2020 Mar 2;219(3):e201808017. doi: 10.1083/jcb.201808017.

PMID: 32045479

[\[Abstract\]](#)

PARIS induced defects in mitochondrial biogenesis drive dopamine neuron loss under conditions of parkin or PINK1 deficiency.

Pirooznia SK, Yuan C, Khan MR, Karuppagounder SS, Wang L, Xiong Y, Kang SU, Lee Y, Dawson VL, Dawson TM.

Mol Neurodegener. 2020 Mar 5;15(1):17. doi: 10.1186/s13024-020-00363-x.

PMID: 32138754

[\[Abstract\]](#)

Regulatory Roles of Drosophila Insulin-Like Peptide 1 (DILP1) in Metabolism Differ in Pupal and Adult Stages.

Liao S, Post S, Lehmann P, Veenstra JA, Tatar M, Nässel DR.

Front Endocrinol (Lausanne). 2020 Apr 21;11:180. doi: 10.3389/fendo.2020.00180. eCollection 2020.

PMID: 32373064

[\[Abstract\]](#)

Methods of treating neurodegenerative disease by inhibiting N-deacetylase N-sulfotransferase.

United States Patent Application 20200172910

[\[Abstract\]](#)

A Protamine Knockdown Mimics the Function of Sd in Drosophila melanogaster.

Gingell LF, McLean JR.

G3 (Bethesda). 2020 Jun 1;10(6):2111-2115. doi: 10.1534/g3.120.401307.

PMID: 32321837

[\[Abstract\]](#)

The E3 ubiquitin ligase Slimb/ β -TrCP is required for normal copper homeostasis in Drosophila.

Zhang B, Binks T, Burke R.

Biochim Biophys Acta Mol Cell Res. 2020 Jun 2:118768. doi: 10.1016/j.bbamcr.2020.118768. Online ahead of print.

PMID: 32502619

[\[Abstract\]](#)

Glioblastoma Models in Drosophila melanogaster

Losada-Pérez M, Jarabo P, Martín-Castro FA, Casas-Tintó S.

eLS - Wiley Online Library. doi.org/10.1002/9780470015902.a0022540.pub2

[\[Abstract\]](#)

Tissue-specific Expression of Ribosomal Protein Parologue eRpL22-like in Drosophila melanogaster Eye Development.

Gershman BW, Pritchard CE, Chaney KP, Ware VC.

Dev Dyn. 2020 Apr 30. doi: 10.1002/dvdy.185. Online ahead of print.

PMID: 32353187

[\[Abstract\]](#)

Genetic and genomic studies of pathogenic EXOSC2 mutations in the newly described disease SHRF implicate the autophagy pathway in disease pathogenesis.

Yang X, Bayat V, DiDonato N, Zhao Y, Zarnegar B, Sibrashvili Z, Lopez-Pajares V, Sun T, Tao S, Li C, Rump A, Khavari P, Lu B.

Hum Mol Genet. 2020 Mar 13;29(4):541-553. doi: 10.1093/hmg/ddz251.

PMID: 31628467

[\[Abstract\]](#)

Clinical phenotypes, genotypes and treatment in Chinese dystonia patients with KMT2B variants.

Li XY, Dai LF, Wan XH, Guo Y, Dai Y, Li SL, Fang F, Wang XH, Zhang WH, Liu TH, Xie ZH, Fang T, Wang L, Ding CH.

Parkinsonism Relat Disord. 2020 Jun 9;77:76-82. doi: 10.1016/j.parkreldis.2020.06.002. Online ahead of print.

PMID: 32634684

[\[Abstract\]](#)

Downregulation of respiratory complex I mediates major signalling changes triggered by TOR activation.

Perez-Gomez R, Magnin V, Mihajlovic Z, Slaninova V, Krejci A.

Sci Rep. 2020 Mar 10;10(1):4401. doi: 10.1038/s41598-020-61244-3.

PMID: 32157127

[\[Abstract\]](#)

Ras2, the TC21/R-Ras2 Drosophila homologue, contributes to insulin signalling but is not required for organism viability.

Vega-Cuesta P, Ruiz-Gómez A, Molnar C, Organista MF, Resnik-Docampo M, Falo-Sanjuan J, López-Varea A, de Celis JF.

Dev Biol. 2020 May 15;461(2):172-183. doi: 10.1016/j.ydbio.2020.02.009. Epub 2020 Feb 14.

PMID: 32061885

[\[Abstract\]](#)

Dual role of FGF in proliferation and endoreplication of Drosophila tracheal adult progenitor cells.

de Miguel C, Cruz J, Martín D, Franch-Marro X.

J Mol Cell Biol. 2020 Jan 22;12(1):32-41. doi: 10.1093/jmcb/mjz055.

PMID: 31237953

[\[Abstract\]](#)

Toll signaling promotes JNK-dependent apoptosis in Drosophila.

Li Z, Wu C, Ding X, Li W, Xue L.

Cell Div. 2020 Mar 10;15:7. doi: 10.1186/s13008-020-00062-5. eCollection 2020.

PMID: 32174999

[\[Abstract\]](#)

A Protamine Knockdown Mimics the Function of Sd in *Drosophila melanogaster*.

Gingell LF, McLean JR.

G3 (Bethesda). 2020 Jun 1;10(6):2111-2115. doi: 10.1534/g3.120.401307.

PMID: 32321837

[\[Abstract\]](#)

Mitochondrial complex I derived ROS regulate stress adaptation in *Drosophila melanogaster*.

Scialò F, Sriram A, Stefanatos R, Spriggs RV, Loh SHY, Martins LM, Sanz A.

Redox Biol. 2020 May;32:101450. doi: 10.1016/j.redox.2020.101450. Epub 2020 Feb 7.

PMID: 32146156

[\[Abstract\]](#)

Dysfunction of *Osbyddad* causes Harlequin-type ichthyosis-like defects in *Drosophila melanogaster*.

Wang Y, Norum M, Oehl K, Yang Y, Zuber R, Yang J, Farine JP, Gehring N, Flötenmeyer M, Ferveur JF, Moussian B.

PLoS Genet. 2020 Jan 13;16(1):e1008363. doi: 10.1371/journal.pgen.1008363. eCollection 2020 Jan.

PMID: 31929524

[\[Abstract\]](#)

The depletion of ubiquilin in *Drosophila melanogaster* disturbs neurochemical regulation to drive activity and behavioral deficits.

Jantrapirom S, Enomoto Y, Karinchai J, Yamaguchi M, Yoshida H, Fukusaki E, Shimma S, Yamaguchi M.

Sci Rep. 2020 Mar 30;10(1):5689. doi: 10.1038/s41598-020-62520-y.

PMID: 32231214

[\[Abstract\]](#)

IRBIT Directs Differentiation of Intestinal Stem Cell Progeny to Maintain Tissue Homeostasis.

Arnautov A, Lee H, Plevock Haase K, Aksenova V, Jarnik M, Oliver B, Serpe M, Dasso M.

iScience. 2020 Mar 27;23(3):100954. doi: 10.1016/j.isci.2020.100954. Epub 2020 Feb 28.

PMID: 32179478

[\[Abstract\]](#)

Notch Mediates Inter-tissue Communication to Promote Tumorigenesis.

Boukhatmi H, Martins T, Pillidge Z, Kamenova T, Bray S.

Curr Biol. 2020 May 18;30(10):1809-1820.e4. doi: 10.1016/j.cub.2020.02.088. Epub 2020 Apr 9.

PMID: 32275875

[\[Abstract\]](#)

mRNA decapping is an evolutionarily conserved modulator of neuroendocrine signaling that controls development and ageing.

Borbolis F, Rallis J, Kanatouris G, Kokla N, Karamalegkos A, Vasileiou C, Vakaloglou KM, Diallinas G, Stravopodis DJ, Zervas CG, Syntichaki P.

Elife. 2020 May 5;9:e53757. doi: 10.7554/eLife.53757.

PMID: 32366357

[\[Abstract\]](#)

Atypical Myosin Tunes Dendrite Arbor Subdivision.

Yoong LF, Lim HK, Tran H, Lackner S, Zheng Z, Hong P, Moore AW.

Neuron. 2020 May 6;106(3):452-467.e8. doi: 10.1016/j.neuron.2020.02.002. Epub 2020 Mar 9.

PMID: 32155441

[\[Abstract\]](#)

Isotropic myosin-generated tissue tension is required for the dynamic orientation of the mitotic spindle.

Lam MSY, Lisica A, Ramkumar N, Hunter G, Mao Y, Charras G, Baum B.

Mol Biol Cell. 2020 Jun 15;31(13):1370-1379. doi: 10.1091/mbc.E19-09-0545. Epub 2020 Apr 22.

PMID: 32320325

[\[Abstract\]](#)

Presynaptic Active Zone Plasticity Encodes Sleep Need in Drosophila.

Huang S, Piao C, Beuschel CB, Götz T, Sigrist SJ.

Curr Biol. 2020 Mar 23;30(6):1077-1091.e5. doi: 10.1016/j.cub.2020.01.019. Epub 2020 Mar 5.

PMID: 32142702

[\[Abstract\]](#)

Subpopulation of Macrophage-Like Plasmacytes Attenuates Systemic Growth via JAK/STAT in the Drosophila Fat Body.

Shin M, Cha N, Koranteng F, Cho B, Shim J.

Front Immunol. 2020 Jan 31;11:63. doi: 10.3389/fimmu.2020.00063. eCollection 2020.

PMID: 32082322

[\[Abstract\]](#)

PP2A phosphatase is required for dendrite pruning via actin regulation in Drosophila.

Wolterhoff N, Gigengack U, Rumpf S.

EMBO Rep. 2020 May 6;21(5):e48870. doi: 10.15252/embr.201948870. Epub 2020 Mar 24.

PMID: 32207238

[\[Abstract\]](#)

Autophagy-dependent filopodial kinetics restrict synaptic partner choice during *Drosophila* brain wiring.

Kiral FR, Linneweber GA, Mathejczyk T, Georgiev SV, Wernet MF, Hassan BA, von Kleist M, Hiesinger PR. Nat Commun. 2020 Mar 12;11(1):1325. doi: 10.1038/s41467-020-14781-4.

PMID: 32165611

[\[Abstract\]](#)

Tailless/TLX reverts intermediate neural progenitors to stem cells driving tumourigenesis via repression of asense/ASCL1.

Hakes AE, Brand AH.

Elife. 2020 Feb 19;9:e53377. doi: 10.7554/eLife.53377.

PMID: 32073402

[\[Abstract\]](#)

Heparan sulfate maintains adult midgut homeostasis in *Drosophila*.

Wei M, Shi L, Kong R, Zhao H, Li Z.

Cell Biol Int. 2020 Mar;44(3):905-917. doi: 10.1002/cbin.11289. Epub 2020 Jan 16.

PMID: 31868274

[\[Abstract\]](#)

Nuclear Ccr4-Not mediates the degradation of telomeric and transposon transcripts at chromatin in the *Drosophila* germline.

Kordyukova M, Sokolova O, Morgunova V, Ryazansky S, Akulenko N, Glukhov S, Kalmykova A.

Nucleic Acids Res. 2020 Jan 10;48(1):141-156. doi: 10.1093/nar/gkz1072.

PMID: 31724732

[\[Abstract\]](#)

***Drosophila* NUAKE functions with Starvin/BAG3 in autophagic protein turnover.**

Brooks D, Naeem F, Stetsiv M, Goetting SC, Bawa S, Green N, Clark C, Bashirullah A, Geisbrecht ER.

PLoS Genet. 2020 Apr 22;16(4):e1008700. doi: 10.1371/journal.pgen.1008700. eCollection 2020 Apr.

PMID: 32320396

[\[Abstract\]](#)

A conserved, N-terminal tyrosine signal directs Ras for inhibition by Rabex-5.

Washington C, Chernet R, Gokhale RH, Martino-Cortez Y, Liu HY, Rosenberg AM, Shahar S, Pflieger CM.

PLoS Genet. 2020 Jun 19;16(6):e1008715. doi: 10.1371/journal.pgen.1008715. eCollection 2020 Jun.

PMID: 32559233

[\[Abstract\]](#)

Epigenetic Regulation of Notch Signaling During *Drosophila* Development.

Wei C, Phang CW, Jiao R.

Adv Exp Med Biol. 2020;1218:59-75. doi: 10.1007/978-3-030-34436-8_4.

PMID: 32060871

[\[Abstract\]](#)

A biallelic pathogenic variant in the OGDH gene results in a neurological disorder with features of a mitochondrial disease.

Yap ZY, Strucinska K, Matsuzaki S, Lee S, Si Y, Humphries K, Tarnopolsky MA, Yoon WH.

J Inherit Metab Dis. 2020 May 7. doi: 10.1002/jimd.12248. Online ahead of print.

PMID: 32383294

[\[Abstract\]](#)

A Nucleolar Isoform of the Drosophila Ubiquitin Specific Protease dUSP36 Regulates MYC-Dependent Cell Growth.

Thevenon D, Seffouh I, Pillet C, Crespo-Yanez X, Fauvarque MO, Taillebourg E.

Front Cell Dev Biol. 2020 Jun 19;8:506. doi: 10.3389/fcell.2020.00506. eCollection 2020.

PMID: 32637412

[\[Abstract\]](#)

Genomic and transcriptomic analyses in Drosophila suggest that the ecdysteroid kinase-like (EcKL) gene family encodes the 'detoxification-by-phosphorylation' enzymes of insects.

Scanlan JL, Gledhill-Smith RS, Battlay P, Robin C.

Insect Biochem Mol Biol. 2020 Jun 12;123:103429. doi: 10.1016/j.ibmb.2020.103429. Online ahead of print.

PMID: 32540344

[\[Abstract\]](#)

Spectrin couples cell shape, cortical tension, and Hippo signaling in retinal epithelial morphogenesis.

Deng H, Yang L, Wen P, Lei H, Blount P, Pan D.

J Cell Biol. 2020 Apr 6;219(4):e201907018. doi: 10.1083/jcb.201907018.

PMID: 32328630

[\[Abstract\]](#)

A Drosophila model to study retinitis pigmentosa pathology associated with mutations in the core splicing factor Prp8.

Stanković D, Claudius AK, Schertel T, Bresser T, Uhlírova M.

Dis Model Mech. 2020 Jun 26;13(6):dmm043174. doi: 10.1242/dmm.043174.

PMID: 32424050

[\[Abstract\]](#)

Cep97 Is Required for Centriole Structural Integrity and Cilia Formation in Drosophila.

Dobbelaere J, Schmidt Cernohorska M, Huranova M, Slade D, Dammermann A.

Curr Biol. 2020 Jun 25:S0960-9822(20)30765-X. doi: 10.1016/j.cub.2020.05.078. Online ahead of print.

PMID: 32589908

[\[Abstract\]](#)

Alcohol Causes Lasting Differential Transcription in *Drosophila* Mushroom Body Neurons.

Petrucelli E, Brown T, Waterman A, Ledru N, Kaun KR.

Genetics. 2020 May;215(1):103-116. doi: 10.1534/genetics.120.303101. Epub 2020 Mar 4.

PMID: 32132098

[\[Abstract\]](#)

A Novel Mechanism for Activation of Myosin Regulatory Light Chain by Protein Kinase C-Delta in *Drosophila*.

Vaziri P, Ryan D, Johnston CA, Cripps RM.

Genetics. 2020 Sep;216(1):177-190. doi: 10.1534/genetics.120.303540. Epub 2020 Aug 4.

PMID: 32753389

[\[Abstract\]](#)

PI3K activation prevents A β 42-induced synapse loss and favors insoluble amyloid deposit formation.

Arnés M, Romero N, Casas-Tintó S, Acebes Á, Ferrús A.

Mol Biol Cell. 2020 Feb 15;31(4):244-260. doi: 10.1091/mbc.E19-05-0303. Epub 2019 Dec 26.

PMID: 31877058

[\[Abstract\]](#)

Analysing bioelectrical phenomena in the *Drosophila* ovary with genetic tools: tissue-specific expression of sensors for membrane potential and intracellular pH, and RNAi-knockdown of mechanisms involved in ion exchange.

Schotthöfer SK, Bohrmann J.

BMC Dev Biol. 2020 Jul 8;20(1):15. doi: 10.1186/s12861-020-00220-6.

PMID: 32635900

[\[Abstract\]](#)

Proteomic analysis of *Drosophila* CLOCK complexes identifies rhythmic interactions with SAGA and Tip60 complex component NIPPED-A.

Mahesh G, Rivas GBS, Caster C, Ost EB, Amunugama R, Jones R, Allen DL, Hardin PE. Sci Rep. 2020 Oct 21;10(1):17951. doi: 10.1038/s41598-020-75009-5. PMID: 33087840

[\[Abstract\]](#)

Nitric oxide mediates neuro-glial interaction that shapes *Drosophila* circadian behavior.

Kozlov A, Koch R, Nagoshi E. PLoS Genet. 2020 Jun 29;16(6):e1008312. doi:

10.1371/journal.pgen.1008312. eCollection 2020 Jun.

PMID: 32598344

[\[Abstract\]](#)

No Evidence that Wnt Ligands Are Required for Planar Cell Polarity in Drosophila.

Ewen-Campen B, Comyn T, Vogt E, Perrimon N. Cell Rep. 2020 Sep 8;32(10):108121. doi: 10.1016/j.celrep.2020.108121.

PMID: 32905771

[\[Abstract\]](#)

Dissecting Fertility Functions of Drosophila Y Chromosome Genes with CRISPR.

Hafezi Y, Sruba SR, Tarrash SR, Wolfner MF, Clark AG. Genetics. 2020 Apr;214(4):977-990. doi: 10.1534/genetics.120.302672. Epub 2020 Feb 25.

PMID: 32098759

[\[Abstract\]](#)

miR-92a Suppresses Mushroom Body-Dependent Memory Consolidation in Drosophila.

Guyen-Ozkan T, Busto GU, Jung JY, Drago I, Davis RL. eNeuro. 2020 Aug 20;7(4):ENEURO.0224-20.2020. doi: 10.1523/ENEURO.0224-20.2020. Print 2020 Jul/Aug.

PMID: 32737186

[\[Abstract\]](#)

The Drosophila actin nucleator DAAM is essential for left-right asymmetry.

Chougule A, Lapraz F, Földi I, Cerezo D, Mihály J, Noselli S. PLoS Genet. 2020 Apr 23;16(4):e1008758. doi: 10.1371/journal.pgen.1008758. eCollection 2020 Apr.

PMID: 32324733

[\[Abstract\]](#)

Integrins Modulate Extracellular Matrix Organization to Control Cell Signaling during Hematopoiesis.

Khadilkar RJ, Ho KYL, Venkatesh B, Tanentzapf G. Curr Biol. 2020 Sep 7;30(17):3316-3329.e5. doi: 10.1016/j.cub.2020.06.027. Epub 2020 Jul 9.

PMID: 32649911

[\[Abstract\]](#)

Neuronal Function and Dopamine Signaling Evolve at High Temperature in Drosophila.

Jakšić AM, Karner J, Nolte V, Hsu SK, Barghi N, Mallard F, Otte KA, Svečnjak L, Senti KA, Schlötterer C. Mol Biol Evol. 2020 Sep 1;37(9):2630-2640. doi: 10.1093/molbev/msaa116.

PMID: 32402077

[\[Abstract\]](#)

HumanaFly: high-throughput transgenesis and expression of breast cancer transcripts in Drosophila eye discovers the RPS12-Wingless signaling axis.

Katanaev VL, Kryuchkov M, Averkov V, Savitsky M, Nikolaeva K, Klimova N, Khaustov S, Solis GP. Sci Rep. 2020 Dec 3;10(1):21013. doi: 10.1038/s41598-020-77942-x.

PMID: 33273532

[\[Abstract\]](#)

Self-limiting stem-cell niche signaling through degradation of a stem-cell receptor.

Ladyzhets S, Antel M, Simao T, Gasek N, Cowan AE, Inaba M. PLoS Biol. 2020 Dec 14;18(12):e3001003.

doi: 10.1371/journal.pbio.3001003. eCollection 2020 Dec.

PMID: 33315855

[\[Abstract\]](#)

Bab2 Functions as an Ecdysone-Responsive Transcriptional Repressor during Drosophila Development.

Duan J, Zhao Y, Li H, Habernig L, Gordon MD, Miao X, Engström Y, Büttner S. Cell Rep. 2020 Jul

28;32(4):107972. doi: 10.1016/j.celrep.2020.107972.

PMID: 32726635

[\[Abstract\]](#)

Interplay between Anakonda, Gliotactin, and M6 for Tricellular Junction Assembly and Anchoring of Septate Junctions in Drosophila Epithelium.

Esmangart de Bournonville T, Le Borgne R. Curr Biol. 2020 Nov 2;30(21):4245-4253.e4. doi:

10.1016/j.cub.2020.07.090. Epub 2020 Aug 27.

PMID: 32857971

[\[Abstract\]](#)

Innovation of heterochromatin functions drives rapid evolution of essential ZAD-ZNF genes in Drosophila.

Kasinathan B, Colmenares SU 3rd, McConnell H, Young JM, Karpen GH, Malik HS. Elife. 2020 Nov

10;9:e63368. doi: 10.7554/eLife.63368.

PMID: 33169670

[\[Abstract\]](#)

An original infection model identifies host lipoprotein import as a route for blood-brain barrier crossing.

Benmimoun B, Papastefanaki F, Périchon B, Segklia K, Roby N, Miriagou V, Schmitt C, Dramsi S, Matsas

R, Spéder P. Nat Commun. 2020 Nov 30;11(1):6106. doi: 10.1038/s41467-020-19826-2.

PMID: 33257684

[\[Abstract\]](#)

An autophagy-dependent tubular lysosomal network synchronizes degradative activity required for muscle remodeling.

Murakawa T, Kiger AA, Sakamaki Y, Fukuda M, Fujita N. J Cell Sci. 2020 Nov 9;133(21):jcs248336. doi:

10.1242/jcs.248336.

PMID: 33077556

[\[Abstract\]](#)

Transiently "Undead" Enterocytes Mediate Homeostatic Tissue Turnover in the Adult *Drosophila* Midgut.

Amcheslavsky A, Lindblad JL, Bergmann A. Cell Rep. 2020 Nov 24;33(8):108408. doi: 10.1016/j.celrep.2020.108408.

PMID: 33238125

[\[Abstract\]](#)

Oxidative Metabolism Drives Immortalization of Neural Stem Cells during Tumorigenesis.

Bonnay F, Veloso A, Steinmann V, Köcher T, Abdusselamoglu MD, Bajaj S, Rivelles E, Landskron L, Esterbauer H, Zinzen RP, Knoblich JA. Cell. 2020 Sep 17;182(6):1490-1507.e19. doi: 10.1016/j.cell.2020.07.039. Epub 2020 Sep 10.

PMID: 32916131

[\[Abstract\]](#)

Systemic muscle wasting and coordinated tumour response drive tumourigenesis.

Newton H, Wang YF, Campese L, Mokochinski JB, Kramer HB, Brown AEX, Fets L, Hirabayashi S. Nat Commun. 2020 Sep 16;11(1):4653. doi: 10.1038/s41467-020-18502-9.

PMID: 32938923

[\[Abstract\]](#)

Genetic Basis of Natural Variation in Spontaneous Grooming in *Drosophila melanogaster*.

Yanagawa A, Huang W, Yamamoto A, Wada-Katsumata A, Schal C, Mackay TFC. G3 (Bethesda). 2020 Sep 2;10(9):3453-3460. doi: 10.1534/g3.120.401360.

PMID: 32727922

[\[Abstract\]](#)

Ecdysone steroid hormone remote controls intestinal stem cell fate decisions via the PPAR γ -homolog Eip75B in *Drosophila*.

Zipper L, Jassmann D, Burgmer S, Görlich B, Reiff T. Elife. 2020 Aug 10;9:e55795. doi: 10.7554/eLife.55795.

PMID: 32773037

[\[Abstract\]](#)

Cytoplasmic sharing through apical membrane remodeling.

Peterson NG, Stormo BM, Schoenfelder KP, King JS, Lee RR, Fox DT. Elife. 2020 Oct 14;9:e58107. doi: 10.7554/eLife.58107.

PMID: 33051002

[\[Abstract\]](#)

Cytosolic calcium regulates cytoplasmic accumulation of TDP-43 through Calpain-A and Importin α 3.

Park JH, Chung CG, Park SS, Lee D, Kim KM, Jeong Y, Kim ES, Cho JH, Jeon YM, Shen CJ, Kim HJ, Hwang D, Lee SB. Elife. 2020 Dec 11;9:e60132. doi: 10.7554/eLife.60132.

PMID: 33305734

[\[Abstract\]](#)

Asparaginyl-tRNA Synthetase, a Novel Component of Hippo Signaling, Binds to Salvador and Enhances Yorkie-Mediated Tumorigenesis.

Yeom E, Kwon DW, Lee J, Kim SH, Lee JH, Min KJ, Lee KS, Yu K. *Front Cell Dev Biol.* 2020 Feb 5;8:32. doi: 10.3389/fcell.2020.00032. eCollection 2020.

PMID: 32117966

[\[Abstract\]](#)

Dstac Regulates Excitation-Contraction Coupling in Drosophila Body Wall Muscles.

Hsu IU, Linsley JW, Reid LE, Hume RI, Leflein A, Kuwada JY. *Front Physiol.* 2020 Oct 6;11:573723. doi: 10.3389/fphys.2020.573723. eCollection 2020.

PMID: 33123029

[\[Abstract\]](#)

DAnkrd49 and Bdbt act via Casein kinase I ϵ to regulate planar polarity in Drosophila.

Strutt H, Strutt D. *PLoS Genet.* 2020 Aug 4;16(8):e1008820. doi: 10.1371/journal.pgen.1008820. eCollection 2020 Aug.

PMID: 32750048

[\[Abstract\]](#)

Mechanism underlying starvation-dependent modulation of olfactory behavior in Drosophila larva.

Slankster E, Kollala S, Baria D, Dailey-Krempel B, Jain R, Odell SR, Mathew D. *Sci Rep.* 2020 Feb 20;10(1):3119. doi: 10.1038/s41598-020-60098-z.

PMID: 32080342

[\[Abstract\]](#)

Programmed Cell Death 2-Like (Pdcd2l) Is Required for Mouse Embryonic Development.

Houston BJ, Oud MS, Aguirre DM, Merriner DJ, O'Connor AE, Okutman O, Viville S, Burke R, Veltman JA, O'Bryan MK. *G3 (Bethesda).* 2020 Dec 3;10(12):4449-4457. doi: 10.1534/g3.120.401714.

PMID: 33055224

[\[Abstract\]](#)

An Efficient Screen for Cell-Intrinsic Factors Identifies the Chaperonin CCT and Multiple Conserved Mechanisms as Mediating Dendrite Morphogenesis.

Wang YH, Ding ZY, Cheng YJ, Chien CT, Huang ML. *Front Cell Neurosci.* 2020 Sep 25;14:577315. doi: 10.3389/fncel.2020.577315. eCollection 2020.

PMID: 33100975

[\[Abstract\]](#)

Glycolysis regulates Hedgehog signalling via the plasma membrane potential.

Spannl S, Buhl T, Nellas I, Zeidan SA, Iyer KV, Khaliullina H, Schultz C, Nadler A, Dye NA, Eaton S. EMBO J. 2020 Nov 2;39(21):e101767. doi: 10.15252/embj.2019101767. Epub 2020 Oct 6.

PMID: 33021744

[\[Abstract\]](#)

The ELAV/Hu protein Found in neurons regulates cytoskeletal and ECM adhesion inputs for space-filling dendrite growth.

Alizzi RA, Xu D, Tenenbaum CM, Wang W, Gavis ER. PLoS Genet. 2020 Dec 28;16(12):e1009235. doi: 10.1371/journal.pgen.1009235. eCollection 2020 Dec.

PMID: 33370772

[\[Abstract\]](#)

The membrane protein Raw regulates dendrite pruning via the secretory pathway.

Rui M, Bu S, Chew LY, Wang Q, Yu F. Development. 2020 Oct 9;147(19):dev191155. doi: 10.1242/dev.191155.

PMID: 32928906

[\[Abstract\]](#)

Glial Metabolic Rewiring Promotes Axon Regeneration and Functional Recovery in the Central Nervous System.

Li F, Sami A, Noristani HN, Slattery K, Qiu J, Groves T, Wang S, Veerasammy K, Chen YX, Morales J, Haynes P, Sehgal A, He Y, Li S, Song Y. Cell Metab. 2020 Nov 3;32(5):767-785.e7. doi: 10.1016/j.cmet.2020.08.015. Epub 2020 Sep 16.

PMID: 32941799

[\[Abstract\]](#)

Enteric neurons increase maternal food intake during reproduction.

Hadjieconomou D, King G, Gaspar P, Mineo A, Blackie L, Ameku T, Studd C, de Mendoza A, Diao F, White BH, Brown AEX, Plaçais PY, Pr at T, Miguel-Aliaga I. Nature. 2020 Nov;587(7834):455-459. doi: 10.1038/s41586-020-2866-8. Epub 2020 Oct 28.

PMID: 33116314

[\[Abstract\]](#)

Warburg-like Metabolic Reprogramming in Aging Intestinal Stem Cells Contributes to Tissue Hyperplasia.

Morris O, Deng H, Tam C, Jasper H. Cell Rep. 2020 Nov 24;33(8):108423. doi: 10.1016/j.celrep.2020.108423.

PMID: 33238124

[\[Abstract\]](#)

Dynamic centriolar localization of Polo and Centrobin in early mitosis primes centrosome asymmetry.

Gallaud E, Ramdas Nair A, Horsley N, Monnard A, Singh P, Pham TT, Salvador Garcia D, Ferrand A, Cabernard C. PLoS Biol. 2020 Aug 6;18(8):e3000762. doi: 10.1371/journal.pbio.3000762. eCollection 2020 Aug.

PMID: 32760088

[\[Abstract\]](#)

Amalgam regulates the receptor tyrosine kinase pathway through Sprouty in glial cell development in the *Drosophila* larval brain.

Ariss MM, Terry AR, Islam ABMMK, Hay N, Frolov MV. J Cell Sci. 2020 Oct 1;133(19):jcs250837. doi: 10.1242/jcs.250837.

PMID: 32878945

[\[Abstract\]](#)

Developmental loss of neurofibromin across distributed neuronal circuits drives excessive grooming in *Drosophila*.

King LB, Boto T, Botero V, Aviles AM, Jomsky BM, Joseph C, Walker JA, Tomchik SM. PLoS Genet. 2020 Jul 22;16(7):e1008920. doi: 10.1371/journal.pgen.1008920. eCollection 2020 Jul.

PMID: 32697780

[\[Abstract\]](#)

Insulin and Leptin/Upd2 Exert Opposing Influences on Synapse Number in Fat-Sensing Neurons.

Brent AE, Rajan A. Cell Metab. 2020 Nov 3;32(5):786-800.e7. doi: 10.1016/j.cmet.2020.08.017. Epub 2020 Sep 24.

PMID: 32976758

[\[Abstract\]](#)

Fitness trade-offs incurred by ovary-to-gut steroid signalling in *Drosophila*.

Ahmed SMH, Maldera JA, Kronic D, Paiva-Silva GO, Pénalva C, Teleman AA, Edgar BA. Nature. 2020 Aug;584(7821):415-419. doi: 10.1038/s41586-020-2462-y. Epub 2020 Jul 8.

PMID: 32641829

[\[Abstract\]](#)

Hedgehog produced by the *Drosophila* wing imaginal disc induces distinct responses in three target tissues.

Hatori R, Kornberg TB. Development. 2020 Nov 17;147(22):dev195974. doi: 10.1242/dev.195974.

PMID: 33028613

[\[Abstract\]](#)

Variants in SCAF4 Cause a Neurodevelopmental Disorder and Are Associated with Impaired mRNA Processing.

Fliedner A, Kirchner P, Wiesener A, van de Beek I, Waisfisz Q, van Haelst M, Scott DA, Lalani SR, Rosenfeld JA, Azamian MS, Xia F, Dutra-Clarke M, Martinez-Agosto JA, Lee H; UCLA Clinical Genomics

Center, Noh GJ, Lippa N, Alkelai A, Aggarwal V, Agre KE, Gavrilova R, Mirzaa GM, Straussberg R, Cohen R, Horist B, Krishnamurthy V, McWalter K, Juusola J, Davis-Keppen L, Ohden L, van Slegtenhorst M, de Man SA, Ekici AB, Gregor A, van de Laar I, Zweier C. *Am J Hum Genet.* 2020 Sep 3;107(3):544-554. doi: 10.1016/j.ajhg.2020.06.019. Epub 2020 Jul 29.

PMID: 32730804

[\[Abstract\]](#)

Parallel Mechanosensory Pathways Direct Oviposition Decision-Making in *Drosophila*.

Zhang L, Yu J, Guo X, Wei J, Liu T, Zhang W. *Curr Biol.* 2020 Aug 17;30(16):3075-3088.e4. doi: 10.1016/j.cub.2020.05.076. Epub 2020 Jul 9.

PMID: 32649914

[\[Abstract\]](#)

Coupling Neuropeptide Levels to Structural Plasticity in *Drosophila* Clock Neurons.

Herrero A, Yoshii T, Ispizua JI, Colque C, Veenstra JA, Muraro NI, Ceriani MF. *Curr Biol.* 2020 Aug 17;30(16):3154-3166.e4. doi: 10.1016/j.cub.2020.06.009. Epub 2020 Jul 2.

PMID: 32619484

[\[Abstract\]](#)

Cp1/cathepsin L is required for autolysosomal clearance in *Drosophila*.

Xu T, Nicolson S, Sandow JJ, Dayan S, Jiang X, Manning JA, Webb AI, Kumar S, Denton D. *Autophagy.* 2020 Oct 28:1-16. doi: 10.1080/15548627.2020.1838105. Online ahead of print.

PMID: 33112206

[\[Abstract\]](#)

Microtubules originate asymmetrically at the somatic golgi and are guided via Kinesin2 to maintain polarity within neurons.

Mukherjee A, Brooks PS, Bernard F, Guichet A, Conduit PT. *Elife.* 2020 Jul 13;9:e58943. doi: 10.7554/eLife.58943. PMID: 32657758

[\[Abstract\]](#)

A novel *Drosophila* model for neurodevelopmental disorders associated with Shwachman-Diamond syndrome.

Takai A, Chiyonobu T, Ueoka I, Tanaka R, Tozawa T, Yoshida H, Morimoto M, Hosoi H, Yamaguchi M. *Neurosci Lett.* 2020 Nov 20;739:135449. doi: 10.1016/j.neulet.2020.135449. Epub 2020 Oct 25.

PMID: 33115644

[\[Abstract\]](#)

***Drosophila* PDGF/VEGF signaling from muscles to hepatocyte-like cells protects against obesity.**

Ghosh AC, Tattikota SG, Liu Y, Comjean A, Hu Y, Barrera V, Ho Sui SJ, Perrimon N. *Elife.* 2020 Oct 27;9:e56969. doi: 10.7554/eLife.56969.

PMID: 33107824

[\[Abstract\]](#)

Dissemination of RasV12-transformed cells requires the mechanosensitive channel Piezo.

Lee J, Cabrera AJH, Nguyen CMT, Kwon YV. Nat Commun. 2020 Jul 16;11(1):3568. doi: 10.1038/s41467-020-17341-y.

PMID: 32678085

[\[Abstract\]](#)

Metabolic control of cellular immune-competency by odors in Drosophila.

Madhwal S, Shin M, Kapoor A, Goyal M, Joshi MK, Ur Rehman PM, Gor K, Shim J, Mukherjee T. Elife. 2020 Dec 29;9:e60376. doi: 10.7554/eLife.60376.

PMID: 33372660

[\[Abstract\]](#)

Homeostatic maintenance and age-related functional decline in the Drosophila ear.

Keder A, Tardieu C, Malong L, Filia A, Kashkenbayeva A, Newton F, Georgiades M, Gale JE, Lovett M, Jarman AP, Albert JT. Sci Rep. 2020 May 4;10(1):7431. doi: 10.1038/s41598-020-64498-z.

PMID: 32366993

[\[Abstract\]](#)

Loss of the Drosophila branched-chain α -ketoacid dehydrogenase complex results in neuronal dysfunction.

Tsai HY, Wu SC, Li JC, Chen YM, Chan CC, Chen CH. Dis Model Mech. 2020 Aug 27;13(8):dmm044750. doi: 10.1242/dmm.044750.

PMID: 32680850

[\[Abstract\]](#)

Drosophila Tubulin-Specific Chaperone E Recruits Tubulin around Chromatin to Promote Mitotic Spindle Assembly.

Métivier M, Gallaud E, Thomas A, Pascal A, Gagné JP, Poirier GG, Chrétien D, Gibeaux R, Richard-Parpaillon L, Benaud C, Giet R. Curr Biol. 2021 Feb 22;31(4):684-695.e6. doi: 10.1016/j.cub.2020.11.009.

Epub 2020 Nov 30.

PMID: 33259793

[\[Abstract\]](#)

Circadian Structural Plasticity Drives Remodeling of E Cell Output.

Duhart JM, Herrero A, de la Cruz G, Ispizua JI, Pérez N, Ceriani MF. Curr Biol. 2020 Dec 21;30(24):5040-5048.e5. doi: 10.1016/j.cub.2020.09.057. Epub 2020 Oct 15.

PMID: 33065014

[\[Abstract\]](#)

Effect of synbiotics on thyroid hormones, intestinal histomorphology, and heat shock protein 70 expression in broiler chickens reared under cyclic heat stress.

Jiang S, Mohammed AA, Jacobs JA, Cramer TA, Cheng HW. *Poult Sci.* 2020 Jan;99(1):142-150. doi: 10.3382/ps/pez571. Epub 2019 Dec 30.

PMID: 32416795

[\[Abstract\]](#)

Anandamide Metabolites Protect against Seizures through the TRP Channel Water Witch in *Drosophila melanogaster*.

Jacobs JA, Sehgal A. *Cell Rep.* 2020 Jun 2;31(9):107710. doi: 10.1016/j.celrep.2020.107710.

PMID: 32492422

[\[Abstract\]](#)

Black soybean seed coat extract protects *Drosophila melanogaster* against Pb toxicity by promoting iron absorption.

Feixiang Lia, Zhi-Hua Liuab, Xueke Tian, Tengfei Liu, Hui-Li Wang, Guiran Xiao

Journal of Functional Foods Volume 75, December 2020, 104201. doi:10.1016/j.jff.2020.104201

[\[Abstract\]](#)

Sequential activation of Notch and Grainyhead gives apoptotic competence to Abdominal-B expressing larval neuroblasts in *Drosophila* Central nervous system.

Bakshi A, Sipani R, Ghosh N, Joshi R. *PLoS Genet.* 2020 Aug 31;16(8):e1008976. doi:

10.1371/journal.pgen.1008976. eCollection 2020 Aug.

PMID: 32866141

[\[Abstract\]](#)

***Drosophila* metamorphosis involves hemocyte mediated macroendocytosis and efferocytosis.**

Ghosh S, Ghosh S, Mandal L. *Int J Dev Biol.* 2020;64(4-5-6):319-329. doi: 10.1387/ijdb.190215lm.

PMID: 32658992

[\[Abstract\]](#)

The Classic Lobe Eye Phenotype of *Drosophila* Is Caused by Transposon Insertion-Induced Misexpression of a Zinc-Finger Transcription Factor.

Son W, Choi KW. *Genetics.* 2020 Sep;216(1):117-134. doi: 10.1534/genetics.120.303486. Epub 2020 Jul 8.

PMID: 32641295

[\[Abstract\]](#)

Visceral Mechano-sensing Neurons Control *Drosophila* Feeding by Using Piezo as a Sensor.

Wang P, Jia Y, Liu T, Jan YN, Zhang W. *Neuron.* 2020 Nov 25;108(4):640-650.e4. doi:

10.1016/j.neuron.2020.08.017. Epub 2020 Sep 9.

PMID: 32910893

[\[Abstract\]](#)

Fatty acid β -oxidation is required for the differentiation of larval hematopoietic progenitors in *Drosophila*.

Tiwari SK, Toshniwal AG, Mandal S, Mandal L. *Elife*. 2020 Jun 12;9:e53247. doi: 10.7554/eLife.53247. PMID: 32530419

[\[Abstract\]](#)

Lethal (2) giant discs (Lgd)/CC2D1 is required for the full activity of the ESCRT machinery.

Baeumers M, Ruhнау K, Breuer T, Pannen H, Goerlich B, Kniebel A, Haensch S, Weidtkamp-Peters S, Schmitt L, Klein T. *BMC Biol*. 2020 Dec 22;18(1):200. doi: 10.1186/s12915-020-00933-x. PMID: 33349255

[\[Abstract\]](#)

Paradoxical Mitophagy Regulation by PINK1 and TUFm.

Lin J, Chen K, Chen W, Yao Y, Ni S, Ye M, Zhuang G, Hu M, Gao J, Gao C, Liu Y, Yang M, Zhang Z, Zhang X, Huang J, Chen F, Sun L, Zhang X, Yu S, Chen Y, Jiang Y, Wang S, Yang X, Liu K, Zhou HM, Ji Z, Deng H, Haque ME, Li J, Mi LZ, Li Y, Yang Y. *Mol Cell*. 2020 Nov 19;80(4):607-620.e12. doi: 10.1016/j.molcel.2020.10.007. Epub 2020 Oct 27. PMID: 33113344

[\[Abstract\]](#)

A *Drosophila* Model to Study Wound-induced Polyploidization.

Bailey EC, Dehn AS, Gjelsvik KJ, Besen-McNally R, Losick VP. *J Vis Exp*. 2020 Jun 9;(160). doi: 10.3791/61252. PMID: 32597839

[\[Abstract\]](#)

Loss of the Mitochondrial Fission GTPase Drp1 Contributes to Neurodegeneration in a *Drosophila* Model of Hereditary Spastic Paraplegia.

Fowler PC, Byrne DJ, Blackstone C, O'Sullivan NC. *Brain Sci*. 2020 Sep 17;10(9):646. doi: 10.3390/brainsci10090646. PMID: 32957716

[\[Abstract\]](#)

ATXN1 repeat expansions confer risk for amyotrophic lateral sclerosis and contribute to TDP-43 mislocalization.

Tazelaar GHP, Boeynaems S, De Decker M, van Vugt JJFA, Kool L, Goedee HS, McLaughlin RL, Sproviero W, Iacoangeli A, Moisse M, Jacquemyn M, Daelemans D, Dekker AM, van der Spek RA, Westeneng HJ, Kenna KP, Assalioui A, Da Silva N; Project MinE ALS Sequencing Consortium, Povedano M, Pardina JSM, Hardiman O, Salachas F, Millecamps S, Vourc'h P, Corcia P, Couratier P, Morrison KE, Shaw PJ, Shaw CE,

Pasterkamp RJ, Landers JE, Van Den Bosch L, Robberecht W, Al-Chalabi A, van den Berg LH, Van Damme P, Veldink JH, van Es MA. Brain Commun. 2020 May 19;2(2):fcaa064. doi: 10.1093/braincomms/fcaa064. eCollection 2020.

PMID: 32954321

[\[Abstract\]](#)

Ecdysone-dependent feedback regulation of prothoracicotropic hormone controls the timing of developmental maturation.

Christensen CF, Koyama T, Nagy S, Danielsen ET, Texada MJ, Halberg KA, Rewitz K. Development. 2020 Jul 24;147(14):dev188110. doi: 10.1242/dev.188110.

PMID: 32631830

[\[Abstract\]](#)

Effects of Xuefu Zhuyu Decoction on Cell Migration and Ocular Tumor Invasion in Drosophila.

Sitong Wang, Fanwu Wu, Bin Ye, Shiping Zhang, Xingjun Wang, Qian Xu, Guowang Li, Menglong Zhang, Shuai Wang, Yongsen Jia, Chunhua Jiang, Xiaojin La, Hong Chang, Zixue Zhao, Peng Li, Ji-an Li, and Chenxi Wu. BioMed Research International Volume 2020 | Article ID 5463652. Doi: 10.1155/2020/5463652.

[\[Abstract\]](#)

A Genetic Analysis of Tumor Progression in Drosophila Identifies the Cohesin Complex as a Suppressor of Individual and Collective Cell Invasion.

Canales Coutiño B, Cornhill ZE, Couto A, Mack NA, Rusu AD, Nagarajan U, Fan YN, Hadjicharalambous MR, Castellanos Uribe M, Burrows A, Lourdasamy A, Rahman R, May ST, Georgiou M. iScience. 2020 Jun 26;23(6):101237. doi: 10.1016/j.isci.2020.101237. Epub 2020 Jun 4.

PMID: 32629605

[\[Abstract\]](#)

Cholinergic Synaptic Homeostasis Is Tuned by an NFAT-Mediated $\alpha 7$ nAChR-Kv4/Shal Coupled Regulatory System.

Eadaim A, Hahm ET, Justice ED, Tsunoda S. Cell Rep. 2020 Sep 8;32(10):108119. doi: 10.1016/j.celrep.2020.108119.

PMID: 32905767

[\[Abstract\]](#)

TDP-43 prevents retrotransposon activation in the Drosophila motor system through regulation of Dicer-2 activity.

Romano G, Klima R, Feiguin F. BMC Biol. 2020 Jul 3;18(1):82. doi: 10.1186/s12915-020-00816-1.

PMID: 32620127

[\[Abstract\]](#)

Drosophila melanogaster as a Model of Developmental Genetics: Modern Approaches and Prospects.

Nefedova, L.N. Russ J Dev Biol 51, 201–211 (2020). <https://doi.org/10.1134/S1062360420040050>

[\[Abstract\]](#)

Coordinated control of adiposity and growth by anti-anabolic kinase ERK7.

Hasygar K, Deniz O, Liu Y, Gullmets J, Hynynen R, Ruhanen H, Kokki K, Käkelä R, Hietakangas V. *EMBO Rep.* 2021 Feb 3;22(2):e49602. doi: 10.15252/embr.201949602. Epub 2020 Dec 28.

PMID: 33369866

[\[Abstract\]](#)

Cofilin Loss in Drosophila Muscles Contributes to Muscle Weakness through Defective Sarcomerogenesis during Muscle Growth.

Balakrishnan M, Yu SF, Chin SM, Soffar DB, Windner SE, Goode BL, Baylies MK. *Cell Rep.* 2020 Jul 21;32(3):107893. doi: 10.1016/j.celrep.2020.107893.

PMID: 32697999

[\[Abstract\]](#)

Free fatty acid determination as a tool for modeling metabolic diseases in Drosophila.

Sellin J, Fülle JB, Thiele C, Bauer R, Bülow MH. *J Insect Physiol.* 2020 Oct;126:104090. doi: 10.1016/j.jinsphys.2020.104090. Epub 2020 Jul 28.

PMID: 32730782

[\[Abstract\]](#)

Myt1 Kinase Couples Mitotic Cell Cycle Exit with Differentiation in Drosophila.

Willms RJ, Zeng J, Campbell SD. *Cell Rep.* 2020 Nov 17;33(7):108400. doi: 10.1016/j.celrep.2020.108400.

PMID: 33207203

[\[Abstract\]](#)

Steroid-dependent switch of OvoL/Shavenbaby controls self-renewal versus differentiation of intestinal stem cells.

Al Hayek S, Alsawadi A, Kambris Z, Boquete JP, Bohère J, Immarigeon C, Ronsin B, Plaza S, Lemaitre B, Payre F, Osman D. *EMBO J.* 2021 Feb 15;40(4):e104347. doi: 10.15252/emboj.2019104347. Epub 2020 Dec 29.

PMID: 33372708

[\[Abstract\]](#)

Overexpressed PERK suppresses the neurodegenerative phenotypes in PINK1B9 flies by enhancing mitochondrial function.

Cui Y, Wen X, Nan Y, Xiang G, Wei Z, Wei L, Xia Y, Li Q. *Neurochem Int.* 2020 Nov;140:104825. doi: 10.1016/j.neuint.2020.104825. Epub 2020 Sep 6.

PMID: 32898622

[\[Abstract\]](#)

Extrinsic activin signaling cooperates with an intrinsic temporal program to increase mushroom body neuronal diversity.

Rossi AM, Desplan C. *Elife*. 2020 Jul 6;9:e58880. doi: 10.7554/eLife.58880.

PMID: 32628110

[\[Abstract\]](#)

The Bric-à-Brac BTB/POZ transcription factors are necessary in niche cells for germline stem cells establishment and homeostasis through control of BMP/DPP signaling in the *Drosophila melanogaster* ovary.

Miscopein Saler L, Hauser V, Bartoletti M, Mallart C, Malartre M, Lebrun L, Pret AM, Théodore L, Chalvet F, Netter S. *PLoS Genet*. 2020 Nov 5;16(11):e1009128. doi: 10.1371/journal.pgen.1009128. eCollection 2020 Nov.

PMID: 33151937

[\[Abstract\]](#)

***Drosophila* Models to Study Long Noncoding RNAs Related to Neurological Disorders.** In: Jurga S., Barciszewski J. (eds) *The Chemical Biology of Long Noncoding RNAs*. Muraoka Y., Yamaguchi M. (2020) . RNA Technologies, vol 11. Springer, Cham. https://doi.org/10.1007/978-3-030-44743-4_16

[\[Abstract\]](#)

Periodic Oscillations of Myosin-II Mechanically Proofread Cell-Cell Connections to Ensure Robust Formation of the Cardiac Vessel.

Zhang S, Teng X, Toyama Y, Saunders TE. *Curr Biol*. 2020 Sep 7;30(17):3364-3377.e4. doi: 10.1016/j.cub.2020.06.041. Epub 2020 Jul 16.

PMID: 32679105

[\[Abstract\]](#)

ADAM17-triggered TNF signalling protects the ageing *Drosophila* retina from lipid droplet-mediated degeneration.

Muliyil S, Levet C, Düsterhöft S, Dulloo I, Cowley SA, Freeman M. *EMBO J*. 2020 Sep 1;39(17):e104415. doi: 10.15252/embj.2020104415. Epub 2020 Jul 26.

PMID: 32715522

[\[Abstract\]](#)

Different functions of two putative *Drosophila* $\alpha 2\delta$ subunits in the same identified motoneurons.

Heinrich L, Ryglewski S. *Sci Rep*. 2020 Aug 13;10(1):13670. doi: 10.1038/s41598-020-69748-8.

PMID: 32792569

[\[Abstract\]](#)

Patient-specific genomics and cross-species functional analysis implicate LRP2 in hypoplastic left heart syndrome.

Theis JL, Vogler G, Missinato MA, Li X, Nielsen T, Zeng XI, Martinez-Fernandez A, Walls SM, Kervadec A, Kezos JN, Birker K, Evans JM, O'Byrne MM, Fogarty ZC, Terzic A, Grossfeld P, Ocorr K, Nelson TJ, Olson TM, Colas AR, Bodmer R. *Elife*. 2020 Oct 2;9:e59554. doi: 10.7554/eLife.59554.

PMID: 33006316

[\[Abstract\]](#)

A conserved myotubularin-related phosphatase regulates autophagy by maintaining autophagic flux.

Allen EA, Amato C, Fortier TM, Velentzas P, Wood W, Baehrecke EH. *J Cell Biol*. 2020 Nov 2;219(11):e201909073. doi: 10.1083/jcb.201909073.

PMID: 32915229

[\[Abstract\]](#)

Identification of MYOM2 as a candidate gene in hypertrophic cardiomyopathy and Tetralogy of Fallot, and its functional evaluation in the *Drosophila* heart.

Auxerre-Plantié E, Nielsen T, Grunert M, Olejniczak O, Perrot A, Özcelik C, Harries D, Matinmehr F, Dos Remedios C, Mühlfeld C, Kraft T, Bodmer R, Vogler G, Sperling SR. *Dis Model Mech*. 2020 Dec 18;13(12):dmm045377. doi: 10.1242/dmm.045377.

PMID: 33033063

[\[Abstract\]](#)

Lifespan regulation in α/β posterior neurons of the fly mushroom bodies by Rab27.

Lien WY, Chen YT, Li YJ, Wu JK, Huang KL, Lin JR, Lin SC, Hou CC, Wang HD, Wu CL, Huang SY, Chan CC. *Aging Cell*. 2020 Aug;19(8):e13179. doi: 10.1111/accel.13179. Epub 2020 Jul 6.

PMID: 32627932

[\[Abstract\]](#)

DWnt4 and DWnt10 Regulate Morphogenesis and Arrangement of Columnar Units via Fz2/PCP Signaling in the *Drosophila* Brain.

Han X, Wang M, Liu C, Trush O, Takayama R, Akiyama T, Naito T, Tomomizu T, Imamura K, Sato M. *Cell Rep*. 2020 Oct 27;33(4):108305. doi: 10.1016/j.celrep.2020.108305.

PMID: 33113378

[\[Abstract\]](#)

Neuronal Selection Based on Relative Fitness Comparison Detects and Eliminates Amyloid- β -Induced Hyperactive Neurons in *Drosophila*.

Coelho DS, Moreno E. *iScience*. 2020 Aug 18;23(9):101468. doi: 10.1016/j.isci.2020.101468. Online ahead of print.

PMID: 32866827

[\[Abstract\]](#)

Fat Body p53 Regulates Systemic Insulin Signaling and Autophagy under Nutrient Stress via *Drosophila* Upd2 Repression.

Ingaramo MC, Sánchez JA, Perrimon N, Dekanty A. Cell Rep. 2020 Oct 27;33(4):108321. doi: 10.1016/j.celrep.2020.108321.

PMID: 33113367

[\[Abstract\]](#)

A single-cell atlas and lineage analysis of the adult *Drosophila* ovary.

Rust K, Byrnes LE, Yu KS, Park JS, Sneddon JB, Tward AD, Nystul TG. Nat Commun. 2020 Nov 6;11(1):5628. doi: 10.1038/s41467-020-19361-0.

PMID: 33159074

[\[Abstract\]](#)

Glutamine deprivation alters the origin and function of cancer cell exosomes.

Fan SJ, Kroeger B, Marie PP, Bridges EM, Mason JD, McCormick K, Zois CE, Sheldon H, Khalid Alham N, Johnson E, Ellis M, Stefana MI, Mendes CC, Wainwright SM, Cunningham C, Hamdy FC, Morris JF, Harris AL, Wilson C, Goberdhan DC. EMBO J. 2020 Aug 17;39(16):e103009. doi: 10.15252/embj.2019103009. Epub 2020 Jul 28.

PMID: 32720716

[\[Abstract\]](#)

Interplay between actomyosin and E-cadherin dynamics regulates cell shape in the *Drosophila* embryonic epidermis.

Greig J, Bulgakova NA. J Cell Sci. 2020 Aug 12;133(15):jcs242321. doi: 10.1242/jcs.242321.

PMID: 32665321

[\[Abstract\]](#)

Recruitment of BAF to the nuclear envelope couples the LINC complex to endoreplication.

Unnikannan CP, Reuveny A, Grunberg D, Volk T. Development. 2020 Dec 13;147(23):dev191304. doi: 10.1242/dev.191304.

PMID: 33168584

[\[Abstract\]](#)

PTPN9-mediated dephosphorylation of VTI1B promotes ATG16L1 precursor fusion and autophagosome formation.

Chou HY, Lee YT, Lin YJ, Wen JK, Peng WH, Hsieh PL, Lin SY, Hung CC, Chen GC. Autophagy. 2020 Oct 28:1-16. doi: 10.1080/15548627.2020.1838117. Online ahead of print.

PMID: 33112705

[\[Abstract\]](#)

Metabolic activation and toxicological evaluation of polychlorinated biphenyls in *Drosophila melanogaster*.

Idda T, Bonas C, Hoffmann J, Bertram J, Quinete N, Schettgen T, Fietkau K, Esser A, Stope MB, Leijs MM, Baron JM, Kraus T, Voigt A, Ziegler P. Sci Rep. 2020 Dec 9;10(1):21587. doi: 10.1038/s41598-020-78405-z.

PMID: 33299007

[\[Abstract\]](#)

A novel role for kynurenine 3-monoxygenase in mitochondrial dynamics.

Maddison DC, Alfonso-Núñez M, Swaih AM, Breda C, Campesan S, Allcock N, Straatman-Iwanowska A, Kyriacou CP, Giorgini F. PLoS Genet. 2020 Nov 10;16(11):e1009129. doi: 10.1371/journal.pgen.1009129. eCollection 2020 Nov.

PMID: 33170836

[\[Abstract\]](#)

Fzr/Cdh1 Promotes the Differentiation of Neural Stem Cell Lineages in Drosophila.

Ly PT, Wang H. Front Cell Dev Biol. 2020 Feb 11;8:60. doi: 10.3389/fcell.2020.00060. eCollection 2020.

PMID: 32117986

[\[Abstract\]](#)

Altered MICOS Morphology and Mitochondrial Ion Homeostasis Contribute to Poly(GR) Toxicity Associated with C9-ALS/FTD.

Li S, Wu Z, Li Y, Tantray I, De Stefani D, Mattarei A, Krishnan G, Gao FB, Vogel H, Lu B. Cell Rep. 2020 Aug 4;32(5):107989. doi: 10.1016/j.celrep.2020.107989. PMID: 32755582

[\[Abstract\]](#)

Interactome Mapping Provides a Network of Neurodegenerative Disease Proteins and Uncovers Widespread Protein Aggregation in Affected Brains.

Haenig C, Atias N, Taylor AK, Mazza A, Schaefer MH, Russ J, Riechers SP, Jain S, Coughlin M, Fontaine JF, Freibaum BD, Brusendorf L, Zenkner M, Porras P, Stroedicke M, Schnoegl S, Arnsburg K, Boeddrich A, Pigazzini L, Heutink P, Taylor JP, Kirstein J, Andrade-Navarro MA, Sharan R, Wanker EE. Cell Rep. 2020 Aug 18;32(7):108050. doi: 10.1016/j.celrep.2020.108050.

PMID: 32814053

[\[Abstract\]](#)

Salt inducible kinases as novel Notch interactors in the developing Drosophila retina.

Şahin HB, Sayın S, Holder M, Buğra K, Çelik A. PLoS One. 2020 Jun 15;15(6):e0234744. doi: 10.1371/journal.pone.0234744. eCollection 2020.

PMID: 32542037

[\[Abstract\]](#)

Non-apoptotic caspase activation preserves Drosophila intestinal progenitor cells in quiescence.

Arthurton L, Nahotko DA, Alonso J, Wendler F, Baena-Lopez LA. EMBO Rep. 2020 Dec 3;21(12):e48892. doi: 10.15252/embr.201948892. Epub 2020 Nov 1.

PMID: 33135280

[\[Abstract\]](#)

A new target for an old DUB: UCH-L1 regulates mitofusin-2 levels, altering mitochondrial morphology, function and calcium uptake.

Cerqueira FM, von Stockum S, Giacomello M, Goliand I, Kakimoto P, Marchesan E, De Stefani D, Kowaltowski AJ, Ziviani E, Shirihai OS. Redox Biol. 2020 Oct;37:101676. doi: 10.1016/j.redox.2020.101676. Epub 2020 Aug 7.

PMID: 32956978

[\[Abstract\]](#)

Different functions of two putative *Drosophila* $\alpha\delta$ subunits in the same identified motoneurons.

Heinrich L, Ryglewski S. Sci Rep. 2020 Aug 13;10(1):13670. doi: 10.1038/s41598-020-69748-8. PMID: 32792569

[\[Abstract\]](#)

Topology-driven protein-protein interaction network analysis detects genetic sub-networks regulating reproductive capacity.

Kumar T, Blondel L, Extavour CG. Elife. 2020 Sep 9;9:e54082. doi: 10.7554/eLife.54082.

PMID: 32901612

[\[Abstract\]](#)

CG4928 Is Vital for Renal Function in Fruit Flies and Membrane Potential in Cells: A First In-Depth Characterization of the Putative Solute Carrier UNC93A.

Ceder MM, Aggarwal T, Hosseini K, Maturi V, Patil S, Perland E, Williams MJ, Fredriksson R. Front Cell Dev Biol. 2020 Oct 14;8:580291. doi: 10.3389/fcell.2020.580291. eCollection 2020.

PMID: 33163493

[\[Abstract\]](#)

A Progressive Somatic Cell Niche Regulates Germline Cyst Differentiation in the *Drosophila* Ovary.

Shi J, Jin Z, Yu Y, Zhang Y, Yang F, Huang H, Cai T, Xi R. Curr Biol. 2021 Feb 22;31(4):840-852.e5. doi: 10.1016/j.cub.2020.11.053. Epub 2020 Dec 18.

PMID: 33340458

[\[Abstract\]](#)

3D Particle Tracking for Noninvasive In Vivo Analysis of Synaptic Microtubule Dynamics in Dendrites and Neuromuscular Junctions of *Drosophila*.

Chou VT, Yesilyurt HG, Lai H, Long JB, Arnes M, Obbad K, Jones M, Sasaki H, Lucas LAG, Alworth S, Lee JS, Van Vactor D. J Vis Exp. 2020 May 12;(159). doi: 10.3791/61159.

PMID: 32478717

[\[Abstract\]](#)

AMPK-Regulated Astrocytic Lactate Shuttle Plays a Non-Cell-Autonomous Role in Neuronal Survival.

Muraleedharan R, Gawali MV, Tiwari D, Sukumaran A, Oatman N, Anderson J, Nardini D, Bhuiyan MAN, Tkáč I, Ward AL, Kundu M, Waclaw R, Chow LM, Gross C, Rao R, Schirmeier S, Dasgupta B. *Cell Rep.* 2020 Sep 1;32(9):108092. doi: 10.1016/j.celrep.2020.108092.

PMID: 32877674

[\[Abstract\]](#)

PTPN21/Pez Is a Novel and Evolutionarily Conserved Key Regulator of Inflammation In Vivo.

Campbell JS, Davidson AJ, Todd H, Rodrigues FSLM, Elliot AM, Early JJ, Lyons DA, Feng Y, Wood W. *Curr Biol.* 2021 Feb 22;31(4):875-883.e5. doi: 10.1016/j.cub.2020.11.014. Epub 2020 Dec 8.

PMID: 33296680

[\[Abstract\]](#)

Insulin signaling represents a gating mechanism between different memory phases in *Drosophila* larvae.

Eschment M, Franz HR, Güllü N, Hölscher LG, Huh KE, Widmann A. *PLoS Genet.* 2020 Oct 26;16(10):e1009064. doi: 10.1371/journal.pgen.1009064. eCollection 2020 Oct.

PMID: 33104728

[\[Abstract\]](#)

Identification of MYOM2 as a candidate gene in hypertrophic cardiomyopathy and Tetralogy of Fallot, and its functional evaluation in the *Drosophila* heart.

Auxerre-Plantié E, Nielsen T, Grunert M, Olejniczak O, Perrot A, Özcelik C, Harries D, Matinmehr F, Dos Remedios C, Mühlfeld C, Kraft T, Bodmer R, Vogler G, Sperling SR. *Dis Model Mech.* 2020 Dec 18;13(12):dmm045377. doi: 10.1242/dmm.045377.

PMID: 33033063

[\[Abstract\]](#)

Exosomal arrow (Arr)/lipoprotein receptor protein 6 (LRP6) in *Drosophila melanogaster* increases the extracellular level of *Sol narae* (Sona) in a Wnt-independent manner.

Han JH, Kim Y, Cho KO. *Cell Death Dis.* 2020 Nov 3;11(11):944. doi: 10.1038/s41419-020-02850-x.

PMID: 33139721

[\[Abstract\]](#)

Plasticity of Carbohydrate Transport at the Blood-Brain Barrier.

McMullen E, Weiler A, Becker HM, Schirmeier S. *Front Behav Neurosci.* 2021 Jan 22;14:612430. doi: 10.3389/fnbeh.2020.612430. eCollection 2020.

PMID: 33551766

[\[Abstract\]](#)

The *Drosophila melanogaster* as Genetic Model System to Dissect the Mechanisms of Disease that Lead to Neurodegeneration in Adrenoleukodystrophy.

Bülow MH, Parsons BD, Di Cara F. *Adv Exp Med Biol.* 2020;1299:145-159. doi: 10.1007/978-3-030-60204-8_11.

PMID: 33417213

[\[Abstract\]](#)

The Nuclear Receptor Seven Up Regulates Genes Involved in Immunity and Xenobiotic Response in the Adult *Drosophila* Female Fat Body.

Weaver LN, Drummond-Barbosa D. *G3 (Bethesda).* 2020 Dec 3;10(12):4625-4635. doi: 10.1534/g3.120.401745.

PMID: 33087412

[\[Abstract\]](#)

ROS Regulate Caspase-Dependent Cell Delamination without Apoptosis in the *Drosophila* Pupal Notum.

Fujisawa Y, Shinoda N, Chihara T, Miura M. *iScience.* 2020 Aug 21;23(8):101413. doi: 10.1016/j.isci.2020.101413. Epub 2020 Jul 25.

PMID: 32791328

[\[Abstract\]](#)

Muscle function and homeostasis require cytokine inhibition of AKT activity in *Drosophila*.

Kierdorf K, Hersperger F, Sharrock J, Vincent CM, Ustaoglu P, Dou J, Gyoergy A, Groß O, Siekhaus DE, Dionne MS. *Elife.* 2020 Jan 20;9:e51595. doi: 10.7554/eLife.51595.

PMID: 31944178

[\[Abstract\]](#)

Tweedle proteins form extracellular two-dimensional structures defining body and cell shape in *Drosophila melanogaster*.

Zuber R, Wang Y, Gehring N, Bartoszewski S, Moussian B. *Open Biol.* 2020 Dec;10(12):200214. doi: 10.1098/rsob.200214. Epub 2020 Dec 9.

PMID: 33292106

[\[Abstract\]](#)

Suppression of spastin Mutant Phenotypes by Pak3 Loss Implicates a Role for Reactive Glia in AD-HSP.

Ozdowski EF, Wentzell JS, Engert SM, Abbott H, Sherwood NT. *Front Neurosci.* 2020 Sep 4;14:912. doi: 10.3389/fnins.2020.00912. eCollection 2020.

PMID: 33013303

[\[Abstract\]](#)

Renal Purge of Hemolymphatic Lipids Prevents the Accumulation of ROS-Induced Inflammatory Oxidized Lipids and Protects *Drosophila* from Tissue Damage.

Li X, Rommelaere S, Kondo S, Lemaitre B. *Immunity.* 2020 Feb 18;52(2):374-387.e6. doi: 10.1016/j.immuni.2020.01.008.

PMID: 32075729

[\[Abstract\]](#)

The NEMP family supports metazoan fertility and nuclear envelope stiffness.

Tsatskis Y, Rosenfeld R, Pearson JD, Boswell C, Qu Y, Kim K, Fabian L, Mohammad A, Wang X, Robson MI, Krchma K, Wu J, Gonçalves J, Hodzic D, Wu S, Potter D, Pelletier L, Dunham WH, Gingras AC, Sun Y, Meng J, Godt D, Schedl T, Ciruna B, Choi K, Perry JRB, Bremner R, Schirmer EC, Brill JA, Jurisicova A, McNeill H. *Sci Adv.* 2020 Aug 28;6(35):eabb4591. doi: 10.1126/sciadv.abb4591. eCollection 2020 Aug.

PMID: 32923640

[\[Abstract\]](#)

Neuronal octopamine signaling regulates mating-induced germline stem cell increase in female *Drosophila melanogaster*.

Yoshinari Y, Ameku T, Kondo S, Tanimoto H, Kuraishi T, Shimada-Niwa Y, Niwa R. *Elife.* 2020 Oct 20;9:e57101. doi: 10.7554/eLife.57101.

PMID: 33077027

[\[Abstract\]](#)

mRNA localization mediates maturation of cytoplasmic cilia in *Drosophila* spermatogenesis.

Fingerhut JM, Yamashita YM. *J Cell Biol.* 2020 Sep 7;219(9):e202003084. doi: 10.1083/jcb.202003084.

PMID: 32706373

[\[Abstract\]](#)

Downregulation of the tyrosine degradation pathway extends *Drosophila* lifespan.

Parkhitko AA, Ramesh D, Wang L, Leshchiner D, Filine E, Binari R, Olsen AL, Asara JM, Cracan V, Rabinowitz JD, Brockmann A, Perrimon N. *Elife.* 2020 Dec 15;9:e58053. doi: 10.7554/eLife.58053.

PMID: 33319750

[\[Abstract\]](#)

Defective Proventriculus Regulates Cell Specification in the Gastric Region of *Drosophila* Intestine.

Mehrotra S, Bansal P, Oli N, Pillai SJ, Galande S. *Front Physiol.* 2020 Jul 14;11:711. doi: 10.3389/fphys.2020.00711. eCollection 2020.

PMID: 32760283

[\[Abstract\]](#)

Novel *Drosophila* model for parkinsonism by targeting phosphoglycerate kinase.

Shimizu J, Kasai T, Yoshida H, Huynh AM, Nakao-Azuma Y, Shinomoto M, Tokuda T, Mizuno T, Yamaguchi M. *Neurochem Int.* 2020 Oct;139:104816. doi: 10.1016/j.neuint.2020.104816. Epub 2020 Aug 3.

PMID: 32758590

[\[Abstract\]](#)

The Rag GTPase Regulates the Dynamic Behavior of TSC Downstream of Both Amino Acid and Growth Factor Restriction.

Yang S, Zhang Y, Ting CY, Bettedi L, Kim K, Ghaniam E, Lilly MA. Dev Cell. 2020 Nov 9;55(3):272-288.e5. doi: 10.1016/j.devcel.2020.08.006. Epub 2020 Sep 7.

PMID: 32898476

[\[Abstract\]](#)

Integration of Migratory Cells into a New Site In Vivo Requires Channel-Independent Functions of Innexins on Microtubules.

Miao G, Godt D, Montell DJ. Dev Cell. 2020 Aug 24;54(4):501-515.e9. doi: 10.1016/j.devcel.2020.06.024. Epub 2020 Jul 14.

PMID: 32668209

[\[Abstract\]](#)

The depletion of ubiquilin in Drosophila melanogaster disturbs neurochemical regulation to drive activity and behavioral deficits.

Jantrapirom S, Enomoto Y, Karinchai J, Yamaguchi M, Yoshida H, Fukusaki E, Shimma S, Yamaguchi M. Sci Rep. 2020 Mar 30;10(1):5689. doi: 10.1038/s41598-020-62520-y.

PMID: 32231214

[\[Abstract\]](#)

A large-scale resource for tissue-specific CRISPR mutagenesis in Drosophila.

Port F, Strein C, Stricker M, Rauscher B, Heigwer F, Zhou J, Beyersdörffer C, Frei J, Hess A, Kern K, Lange L, Langner N, Malamud R, Pavlović B, Räddecke K, Schmitt L, Voos L, Valentini E, Boutros M. Elife. 2020 Feb 13;9:e53865. doi: 10.7554/eLife.53865.

PMID: 32053108

[\[Abstract\]](#)

Multiple Wnts act synergistically to induce Chk1/Grapes expression and mediate G2 arrest in Drosophila tracheoblasts.

Kizhedathu A, Kunnappallil RS, Bagul AV, Verma P, Guha A. Elife. 2020 Sep 2;9:e57056. doi: 10.7554/eLife.57056.

PMID: 32876044

[\[Abstract\]](#)

Role of Armadillo repeat 2 and kinesin-II motor subunit Klp64D for wingless signaling in Drosophila.

Vuong LT, Won JH, Nguyen MB, Choi KW. Sci Rep. 2020 Aug 17;10(1):13864. doi: 10.1038/s41598-020-70759-8.

PMID: 32807823

[\[Abstract\]](#)

Rab11b-mediated integrin recycling promotes brain metastatic adaptation and outgrowth.

Howe EN, Burnette MD, Justice ME, Schnepf PM, Hedrick V, Clancy JW, Guldner IH, Lamere AT, Li J, Aryal UK, D'Souza-Schorey C, Zartman JJ, Zhang S. *Nat Commun.* 2020 Jun 15;11(1):3017. doi: 10.1038/s41467-020-16832-2.

PMID: 32541798

[\[Abstract\]](#)

Glycosylhydrolase genes control respiratory tubes sizes and airway stability.

Behr M, Riedel D. *Sci Rep.* 2020 Aug 7;10(1):13377. doi: 10.1038/s41598-020-70185-w.

PMID: 32770153

[\[Abstract\]](#)

The Cytoplasmic LIM Domain Protein Espinas Contributes to Photoreceptor Layer Selection in the Visual System.

Fernández-Pineda A, Monge-Asensio M, Rios M, Morey M. *Biology (Basel).* 2020 Dec 14;9(12):466. doi: 10.3390/biology9120466.

PMID: 33327397

[\[Abstract\]](#)

Intramacrophage ROS Primes the Innate Immune System via JAK/STAT and Toll Activation.

Chakrabarti S, Visweswariah SS. *Cell Rep.* 2020 Nov 10;33(6):108368. doi: 10.1016/j.celrep.2020.108368.

PMID: 33176146

[\[Abstract\]](#)

Peripheral axonal ensheathment is regulated by RalA GTPase and the exocyst complex.

Silva-Rodrigues JF, Patrício-Rodrigues CF, de Sousa-Xavier V, Augusto PM, Fernandes AC, Farinho AR, Martins JP, Teodoro RO. *Development.* 2020 Feb 4;147(3):dev174540. doi: 10.1242/dev.174540.

PMID: 31969325

[\[Abstract\]](#)

NCBP2 modulates neurodevelopmental defects of the 3q29 deletion in *Drosophila* and *Xenopus laevis* models.

Singh MD, Jensen M, Lasser M, Huber E, Yusuff T, Pizzo L, Lifschutz B, Desai I, Kubina A, Yennawar S, Kim S, Iyer J, Rincon-Limas DE, Lowery LA, Girirajan S. *PLoS Genet.* 2020 Feb 13;16(2):e1008590. doi: 10.1371/journal.pgen.1008590. eCollection 2020 Feb.

PMID: 32053595

[\[Abstract\]](#)

Resilin matrix distribution, variability and function in *Drosophila*.

Lerch S, Zuber R, Gehring N, Wang Y, Eckel B, Klass KD, Lehmann FO, Moussian B. *BMC Biol.* 2020 Dec 14;18(1):195. doi: 10.1186/s12915-020-00902-4.

PMID: 33317537

[\[Abstract\]](#)

Magnesium efflux from *Drosophila* Kenyon cells is critical for normal and diet-enhanced long-term memory.

Wu Y, Funato Y, Meschi E, Jovanoski KD, Miki H, Waddell S. *Elife*. 2020 Nov 26;9:e61339. doi: 10.7554/eLife.61339.

PMID: 33242000

[\[Abstract\]](#)

Lipoic acid rejuvenates aged intestinal stem cells by preventing age-associated endosome reduction.

Du G, Qiao Y, Zhuo Z, Zhou J, Li X, Liu Z, Li Y, Chen H. *EMBO Rep*. 2020 Aug 5;21(8):e49583. doi: 10.15252/embr.201949583. Epub 2020 Jul 9.

PMID: 32648369

[\[Abstract\]](#)

Antinociceptive modulation by the adhesion GPCR C1RL promotes mechanosensory signal discrimination.

Dannhäuser S, Lux TJ, Hu C, Selcho M, Chen JT, Ehmann N, Sachidanandan D, Stopp S, Pauls D, Pawlak M, Langenhan T, Soba P, Rittner HL, Kittel RJ. *Elife*. 2020 Sep 30;9:e56738. doi: 10.7554/eLife.56738.

PMID: 32996461

[\[Abstract\]](#)

***Drosophila* Skp1 Homologue SkpA Plays a Neuroprotective Role in Adult Brain.**

Dabool L, Hakim-Mishnaevski K, Juravlev L, Flint-Brodsky N, Mandel S, Kurant E. *iScience*. 2020 Aug 21;23(8):101375. doi: 10.1016/j.isci.2020.101375. Epub 2020 Jul 16.

PMID: 32739834

[\[Abstract\]](#)

Identification of the Wallenda JNKKK as an Alk suppressor reveals increased competitiveness of Alk-expressing cells.

Wolfstetter G, Pfeifer K, Backman M, Masudi TA, Mendoza-García P, Chen S, Sonnenberg H, Sukumar SK, Uçkun E, Varshney GK, Uv A, Palmer RH. *Sci Rep*. 2020 Sep 11;10(1):14954. doi: 10.1038/s41598-020-70890-6.

PMID: 32917927

[\[Abstract\]](#)

Significance of DopEcR, a G-protein coupled dopamine/ecdysteroid receptor, in physiological and behavioral response to stressors.

Petrucelli E, Lark A, Mrkvicka JA, Kitamoto T. *J Neurogenet*. 2020 Mar;34(1):55-68. doi: 10.1080/01677063.2019.1710144. Epub 2020 Jan 20.

PMID: 31955616

[\[Abstract\]](#)

Analysis on gene modular network reveals morphogen-directed development robustness in *Drosophila*.

Zhang S, Zhao J, Lv X, Fan J, Lu Y, Zeng T, Wu H, Chen L, Zhao Y. *Cell Discov.* 2020 Jun 30;6:43. doi: 10.1038/s41421-020-0173-z. eCollection 2020.

PMID: 32637151

[\[Abstract\]](#)

Aging shifts mitochondrial dynamics toward fission to promote germline stem cell loss.

Amartuvshin O, Lin CH, Hsu SC, Kao SH, Chen A, Tang WC, Chou HL, Chang DL, Hsu YY, Hsiao BS, Rastegari E, Lin KY, Wang YT, Yao CK, Chen GC, Chen BC, Hsu HJ. *Aging Cell.* 2020 Aug;19(8):e13191. doi: 10.1111/accel.13191. Epub 2020 Jul 14.

PMID: 32666649

[\[Abstract\]](#)

An Interaction Network of RNA-Binding Proteins Involved in *Drosophila* Oogenesis.

Bansal P, Madlung J, Schaaf K, Macek B, Bono F. *Mol Cell Proteomics.* 2020 Sep;19(9):1485-1502. doi: 10.1074/mcp.RA119.001912. Epub 2020 Jun 17.

PMID: 32554711

[\[Abstract\]](#)

Honeybee products and edible insect powders improve locomotive and learning abilities of Ubiquilin-knockdown *Drosophila*.

Phokasem P, Jantrapirom S, Karinchai J, Yoshida H, Yamaguchi M, Chantawannakul P. *BMC Complement Med Ther.* 2020 Aug 31;20(1):267. doi: 10.1186/s12906-020-03054-8.

PMID: 32867756

[\[Abstract\]](#)

In vivo analysis of the evolutionary conserved BTD-box domain of Sp1 and Btd during *Drosophila* development.

Blom-Dahl D, Córdoba S, Gabilondo H, Carr-Baena P, Díaz-Benjumea FJ, Estella C. *Dev Biol.* 2020 Oct 1;466(1-2):77-89. doi: 10.1016/j.ydbio.2020.07.011. Epub 2020 Jul 29.

PMID: 32738261

[\[Abstract\]](#)

Sequence heterochrony led to a gain of functionality in an immature stage of the central complex: A fly-beetle insight.

Farnworth MS, Eckermann KN, Bucher G. *PLoS Biol.* 2020 Oct 26;18(10):e3000881. doi: 10.1371/journal.pbio.3000881. eCollection 2020 Oct.

PMID: 33104689

[\[Abstract\]](#)

A Novel Mechanism for Activation of Myosin Regulatory Light Chain by Protein Kinase C-Delta in *Drosophila*.

Vaziri P, Ryan D, Johnston CA, Cripps RM. *Genetics*. 2020 Sep;216(1):177-190. doi: 10.1534/genetics.120.303540. Epub 2020 Aug 4.

PMID: 32753389

[\[Abstract\]](#)

Arginine kinase interacts with 2MIT and is involved in *Drosophila melanogaster* short-term memory.

Bozzato A, Romoli O, Polo D, Baggio F, Mazzotta GM, Triolo G, Myers MP, Sandrelli F. *J Insect Physiol*. 2020 Nov-Dec;127:104118. doi: 10.1016/j.jinsphys.2020.104118. Epub 2020 Oct 2.

PMID: 33011181

[\[Abstract\]](#)

Regulation of BMP4/Dpp retrotranslocation and signaling by deglycosylation.

Galeone A, Adams JM, Matsuda S, Presa MF, Pandey A, Han SY, Tachida Y, Hirayama H, Vaccari T, Suzuki T, Lutz CM, Affolter M, Zuberi A, Jafar-Nejad H. *Elife*. 2020 Jul 28;9:e55596. doi: 10.7554/eLife.55596.

PMID: 32720893

[\[Abstract\]](#)

Persistent epigenetic reprogramming of sweet taste by diet.

Vaziri A, Khabiri M, Genaw BT, May CE, Freddolino PL, Dus M. *Sci Adv*. 2020 Nov 11;6(46):eabc8492. doi: 10.1126/sciadv.abc8492. Print 2020 Nov.

PMID: 33177090

[\[Abstract\]](#)

Ancestral regulatory mechanisms specify conserved midbrain circuitry in arthropods and vertebrates.

Bridi JC, Ludlow ZN, Kottler B, Hartmann B, Vanden Broeck L, Dearlove J, Göker M, Strausfeld NJ, Callaerts P, Hirth F. *Proc Natl Acad Sci U S A*. 2020 Aug 11;117(32):19544-19555. doi:

10.1073/pnas.1918797117. Epub 2020 Aug 3.

PMID: 32747566

[\[Abstract\]](#)

A cell atlas of adult muscle precursors uncovers early events in fibre-type divergence in *Drosophila*.

Zappia MP, de Castro L, Ariss MM, Jefferson H, Islam AB, Frolov MV. *EMBO Rep*. 2020 Oct 5;21(10):e49555. doi: 10.15252/embr.201949555. Epub 2020 Aug 19.

PMID: 32815271

[\[Abstract\]](#)

The receptor tyrosine kinase Ror is required for dendrite regeneration in *Drosophila* neurons.

Nye DMR, Albertson RM, Weiner AT, Hertzler JJ, Shorey M, Goberdhan DCI, Wilson C, Janes KA, Rolls MM. *PLoS Biol*. 2020 Mar 12;18(3):e3000657. doi: 10.1371/journal.pbio.3000657. eCollection 2020 Mar.

PMID: 32163406

[\[Abstract\]](#)

A widespread family of heat-resistant obscure (Hero) proteins protect against protein instability and aggregation.

Tsuboyama K, Osaki T, Matsuura-Suzuki E, Kozuka-Hata H, Okada Y, Oyama M, Ikeuchi Y, Iwasaki S, Tomari Y. PLoS Biol. 2020 Mar 12;18(3):e3000632. doi: 10.1371/journal.pbio.3000632. eCollection 2020 Mar.

PMID: 32163402

[\[Abstract\]](#)

Zinc Finger RNA-Binding Protein Zn72D Regulates ADAR-Mediated RNA Editing in Neurons.

Sapiro AL, Freund EC, Restrepo L, Qiao HH, Bhate A, Li Q, Ni JQ, Mosca TJ, Li JB. Cell Rep. 2020 May 19;31(7):107654. doi: 10.1016/j.celrep.2020.107654.

PMID: 32433963

[\[Abstract\]](#)

Mushroom body subsets encode CREB2-dependent water-reward long-term memory in Drosophila.

Lee WP, Chiang MH, Chang LY, Lee JY, Tsai YL, Chiu TH, Chiang HC, Fu TF, Wu T, Wu CL. PLoS Genet. 2020 Aug 11;16(8):e1008963. doi: 10.1371/journal.pgen.1008963. eCollection 2020 Aug.

PMID: 32780743

[\[Abstract\]](#)

Innate immune signaling in Drosophila shifts anabolic lipid metabolism from triglyceride storage to phospholipid synthesis to support immune function.

Martínez BA, Hoyle RG, Yeudall S, Granade ME, Harris TE, Castle JD, Leitinger N, Bland ML. PLoS Genet. 2020 Nov 23;16(11):e1009192. doi: 10.1371/journal.pgen.1009192. eCollection 2020 Nov.

PMID: 33227003

[\[Abstract\]](#)

tpHusion: An efficient tool for clonal pH determination in Drosophila.

Gupta A, Stocker H. PLoS One. 2020 Feb 14;15(2):e0228995. doi: 10.1371/journal.pone.0228995. eCollection 2020.

PMID: 32059043

[\[Abstract\]](#)

Dop1R1, a type 1 dopaminergic receptor expressed in Mushroom Bodies, modulates Drosophila larval locomotion.

Silva B, Hidalgo S, Campusano JM. PLoS One. 2020 Feb 26;15(2):e0229671. doi: 10.1371/journal.pone.0229671. eCollection 2020.

PMID: 32101569

[\[Abstract\]](#)

Three distinct mechanisms, Notch instructive, permissive, and independent, regulate the expression of two different pericardial genes to specify cardiac cell subtypes.

Panta M, Kump AJ, Dalloul JM, Schwab KR, Ahmad SM. PLoS One. 2020 Oct 27;15(10):e0241191. doi: 10.1371/journal.pone.0241191. eCollection 2020.

PMID: 33108408

[\[Abstract\]](#)

Partial Inhibition of RNA Polymerase I Promotes Animal Health and Longevity.

Martínez Corrales G, Filer D, Wenz KC, Rogan A, Phillips G, Li M, Feseha Y, Broughton SJ, Alic N. Cell Rep. 2020 Feb 11;30(6):1661-1669.e4. doi: 10.1016/j.celrep.2020.01.017.

PMID: 32049000

[\[Abstract\]](#)

Regulation of Expression of Autophagy Genes by Atg8a-Interacting Partners Sequoia, YL-1, and Sir2 in Drosophila.

Jacomín AC, Petridi S, Di Monaco M, Bhujabal Z, Jain A, Mulakkal NC, Palara A, Powell EL, Chung B, Zampronio C, Jones A, Cameron A, Johansen T, Nezis IP. Cell Rep. 2020 May 26;31(8):107695. doi: 10.1016/j.celrep.2020.107695.

PMID: 32460019

[\[Abstract\]](#)

Differential Role for a Defined Lateral Horn Neuron Subset in Naïve Odor Valence in Drosophila.

Lerner H, Rozenfeld E, Rozenman B, Huetteroth W, Parnas M. Sci Rep. 2020 Apr 9;10(1):6147. doi: 10.1038/s41598-020-63169-3.

PMID: 32273557

[\[Abstract\]](#)

Upregulated TNF/Eiger signaling mediates stem cell recovery and tissue homeostasis during nutrient resupply in Drosophila testis.

Chang YC, Tu H, Huang TW, Xu BW, Pi H. Sci Rep. 2020 Jul 15;10(1):11674. doi: 10.1038/s41598-020-68313-7.

PMID: 32669615

[\[Abstract\]](#)

Poly(A) Binding Protein Is Required for Nuclear Localization of the Ecdysteroidogenic Transcription Factor Molting Defective in the Prothoracic Gland of Drosophila melanogaster.

Kamiyama T, Sun W, Tani N, Nakamura A, Niwa R. Front Genet. 2020 Jun 26;11:636. doi: 10.3389/fgene.2020.00636. eCollection 2020.

PMID: 32676099

[\[Abstract\]](#)

Anchor Away - A Fast, Reliable and Reversible Technique To Inhibit Proteins in *Drosophila melanogaster*.

Bosch PS, Pepperl J, Basler K. *G3 (Bethesda)*. 2020 May 4;10(5):1745-1752. doi: 10.1534/g3.120.401055. PMID: 32217630

[\[Abstract\]](#)

A Receptor Guanylate Cyclase, *Gyc76C*, Mediates Humoral, and Cellular Responses in Distinct Ways in *Drosophila* Immunity.

Iwashita S, Suzuki H, Goto A, Oyama T, Kanoh H, Kuraishi T, Fuse N, Yano T, Oshima Y, Dow JAT, Davies SA, Kurata S. *Front Immunol*. 2020 Jan 28;11:35. doi: 10.3389/fimmu.2020.00035. eCollection 2020.

PMID: 32063902

[\[Abstract\]](#)

Mislocalization of TORC1 to Lysosomes Caused by KIF11 Inhibition Leads to Aberrant TORC1 Activity.

Jang YG, Choi Y, Jun K, Chung J. *Mol Cells*. 2020 Aug 31;43(8):705-717. doi:

10.14348/molcells.2020.0089.

PMID: 32759469

[\[Abstract\]](#)

Modeling Mucopolysaccharidosis Type II in the Fruit Fly by Using the RNA Interference Approach.

Rigon L, Kucharowski N, Eckardt F, Bauer R. *Life (Basel)*. 2020 Oct 30;10(11):263. doi:

10.3390/life10110263.

PMID: 33142967

[\[Abstract\]](#)

Sequential Ras/MAPK and PI3K/AKT/mTOR pathways recruitment drives basal extrusion in the prostate-like gland of *Drosophila*.

Rambur A, Lours-Calet C, Beaudoin C, Buñay J, Vialat M, Mirouse V, Trousson A, Renaud Y, Lobaccaro JA, Baron S, Morel L, de Jousineau C. *Nat Commun*. 2020 May 8;11(1):2300. doi: 10.1038/s41467-020-16123-w.

PMID: 32385236

[\[Abstract\]](#)

The voltage-gated potassium channel *Shaker* promotes sleep via thermosensitive GABA transmission.

Kim JH, Ki Y, Lee H, Hur MS, Baik B, Hur JH, Nam D, Lim C. *Commun Biol*. 2020 Apr 15;3(1):174. doi:

10.1038/s42003-020-0902-8.

PMID: 32296133

[\[Abstract\]](#)

***teiresias*, a Fruitless target gene encoding an immunoglobulin-superfamily transmembrane protein, is required for neuronal feminization in *Drosophila*.**

Sato K, Ito H, Yamamoto D. *Commun Biol*. 2020 Oct 21;3(1):598. doi: 10.1038/s42003-020-01327-z.

PMID: 33087851

[\[Abstract\]](#)

A perinuclear microtubule-organizing centre controls nuclear positioning and basement membrane secretion.

Zheng Y, Buchwalter RA, Zheng C, Wight EM, Chen JV, Megraw TL. *Nat Cell Biol.* 2020 Mar;22(3):297-309. doi: 10.1038/s41556-020-0470-7. Epub 2020 Feb 17.

PMID: 32066907

[\[Abstract\]](#)

The neuronal receptor tyrosine kinase Alk is a target for longevity.

Woodling NS, Aleyakpo B, Dyson MC, Minkley LJ, Rajasingam A, Dobson AJ, Leung KHC, Pomposova S, Fuentealba M, Alic N, Partridge L. *Aging Cell.* 2020 May;19(5):e13137. doi: 10.1111/accel.13137. Epub 2020 Apr 15.

PMID: 32291952

[\[Abstract\]](#)

The Snakeskin-Mesh Complex of Smooth Septate Junction Restricts Yorkie to Regulate Intestinal Homeostasis in *Drosophila*.

Chen HJ, Li Q, Nirala NK, Ip YT. *Stem Cell Reports.* 2020 May 12;14(5):828-844. doi: 10.1016/j.stemcr.2020.03.021. Epub 2020 Apr 23.

PMID: 32330445

[\[Abstract\]](#)

EYES ABSENT and TIMELESS integrate photoperiodic and temperature cues to regulate seasonal physiology in *Drosophila*.

Abrieux A, Xue Y, Cai Y, Lewald KM, Nguyen HN, Zhang Y, Chiu JC. *Proc Natl Acad Sci U S A.* 2020 Jun 30;117(26):15293-15304. doi: 10.1073/pnas.2004262117. Epub 2020 Jun 15.

PMID: 32541062

[\[Abstract\]](#)

Synaptic Plasticity Induced by Differential Manipulation of Tonic and Phasic Motoneurons in *Drosophila*.

Aponte-Santiago NA, Ormerod KG, Akbergenova Y, Littleton JT. *J Neurosci.* 2020 Aug 12;40(33):6270-6288. doi: 10.1523/JNEUROSCI.0925-20.2020. Epub 2020 Jul 6.

PMID: 32631939

[\[Abstract\]](#)

Eater cooperates with Multiplexin to drive the formation of hematopoietic compartments.

Csordás G, Grawe F, Uhlirova M. *Elife.* 2020 Oct 7;9:e57297. doi: 10.7554/eLife.57297.

PMID: 33026342

[\[Abstract\]](#)

Kynurenine Metabolism in the Fat Body Non-autonomously Regulates Imaginal Disc Repair in *Drosophila*.

Kashio S, Miura M. *iScience*. 2020 Nov 6;23(12):101738. doi: 10.1016/j.isci.2020.101738. eCollection 2020 Dec 18.

PMID: 33376969

[\[Abstract\]](#)

Evolutionarily Conserved Roles for Aponitic in Induction and Subsequent Decline of Cyclin E Expression.

Wang XF, Liu JX, Ma ZY, Shen Y, Zhang HR, Zhou ZZ, Suzuki E, Liu QX, Hirose S. *iScience*. 2020 Aug 21;23(8):101369. doi: 10.1016/j.isci.2020.101369. Epub 2020 Jul 15.

PMID: 32736066

[\[Abstract\]](#)

Interphase-arrested *Drosophila* embryos activate zygotic gene expression and initiate mid-blastula transition events at a low nuclear-cytoplasmic ratio.

Strong IJT, Lei X, Chen F, Yuan K, O'Farrell PH. *PLoS Biol*. 2020 Oct 22;18(10):e3000891. doi: 10.1371/journal.pbio.3000891. eCollection 2020 Oct.

PMID: 33090988

[\[Abstract\]](#)

Kinetochores suppress neuronal microtubule dynamics and promote dendrite regeneration.

Hertzler JI, Simonovitch SI, Albertson RM, Weiner AT, Nye DMR, Rolls MM. *Mol Biol Cell*. 2020 Sep 1;31(19):2125-2138. doi: 10.1091/mbc.E20-04-0237-T. Epub 2020 Jul 16.

PMID: 32673176

[\[Abstract\]](#)

Mitochondrial DNA segregation and replication restrict the transmission of detrimental mutation.

Chen Z, Wang ZH, Zhang G, Bleck CKE, Chung DJ, Madison GP, Lindberg E, Combs C, Balaban RS, Xu H. *J Cell Biol*. 2020 Jul 6;219(7):e201905160. doi: 10.1083/jcb.201905160.

PMID: 32375181

[\[Abstract\]](#)

Neddylaton activity modulates the neurodegeneration associated with fragile X associated tremor/ataxia syndrome (FXTAS) through regulating Sima.

Lin Y, Xue J, Deng J, He H, Luo S, Chen J, Li J, Yu L, Zhao J, Chen J, Allen EG, Jin P, Duan R. *Neurobiol Dis*. 2020 Sep;143:105013. doi: 10.1016/j.nbd.2020.105013. Epub 2020 Jul 10.

PMID: 32653676

[\[Abstract\]](#)

An antibody toolbox to track complex I assembly defines AIF's mitochondrial function.

Murari A, Rhooms SK, Goparaju NS, Villanueva M, Owusu-Ansah E. J Cell Biol. 2020 Oct 5;219(10):e202001071. doi: 10.1083/jcb.202001071.

PMID: 32936885

[\[Abstract\]](#)

Mechanisms underlying homeostatic plasticity in the Drosophila mushroom body in vivo.

Apostolopoulou AA, Lin AC. Proc Natl Acad Sci U S A. 2020 Jul 14;117(28):16606-16615. doi: 10.1073/pnas.1921294117. Epub 2020 Jun 29.

PMID: 32601210

[\[Abstract\]](#)

Yorkie Growth-Promoting Activity Is Limited by Atg1-Mediated Phosphorylation.

Tyra LK, Nandi N, Tracy C, Krämer H. Dev Cell. 2020 Mar 9;52(5):605-616.e7. doi: 10.1016/j.devcel.2020.01.011. Epub 2020 Feb 6.

PMID: 32032548

[\[Abstract\]](#)

Aralar Sequesters GABA into Hyperactive Mitochondria, Causing Social Behavior Deficits.

Kanellopoulos AK, Mariano V, Spinazzi M, Woo YJ, McLean C, Pech U, Li KW, Armstrong JD, Giangrande A, Callaerts P, Smit AB, Abrahams BS, Fiala A, Achsel T, Bagni C. Cell. 2020 Mar 19;180(6):1178-1197.e20. doi: 10.1016/j.cell.2020.02.044.

PMID: 32200800

[\[Abstract\]](#)

Tissue-specific analysis of lipid species in Drosophila during overnutrition by UHPLC-MS/MS and MALDI-MSI.

Tuthill BF 2nd, Searcy LA, Yost RA, Musselman LP. J Lipid Res. 2020 Mar;61(3):275-290. doi: 10.1194/jlr.RA119000198. Epub 2020 Jan 3.

PMID: 31900315

[\[Abstract\]](#)

Hypersensitivity of Vps33B mutant flies to non-pathogenic infections is dictated by aberrant activation of p38b MAP kinase.

Zhang J, Tracy C, Pasare C, Zeng J, Krämer H. Traffic. 2020 Sep;21(9):578-589. doi: 10.1111/tra.12756. Epub 2020 Aug 3.

PMID: 32677257

[\[Abstract\]](#)

Comprehensive map of visual projection neurons for processing ultraviolet information in the Drosophila brain.

Tai CY, Chin AL, Chiang AS. J Comp Neurol. 2021 Jun;529(8):1988-2013. doi: 10.1002/cne.25068. Epub 2020 Dec 5.

PMID: 33174208

[\[Abstract\]](#)

Usp14 is required for spermatogenesis and ubiquitin stress responses in *Drosophila melanogaster*.

Kovács L, Nagy Á, Pál M, Deák P. J Cell Sci. 2020 Jan 23;133(2):jcs.237511. doi: 10.1242/jcs.237511.

PMID: 31974276

[\[Abstract\]](#)

Iron sequestration by transferrin 1 mediates nutritional immunity in *Drosophila melanogaster*.

Iatsenko I, Marra A, Boquete JP, Peña J, Lemaitre B. Proc Natl Acad Sci U S A. 2020 Mar 31;117(13):7317-7325. doi: 10.1073/pnas.1914830117. Epub 2020 Mar 18.

PMID: 32188787

[\[Abstract\]](#)

Wingless counteracts epithelial folding by increasing mechanical tension at basal cell edges in *Drosophila*.

Sui L, Dahmann C. Development. 2020 Mar 11;147(5):dev184713. doi: 10.1242/dev.184713.

PMID: 32161062

[\[Abstract\]](#)

Hedgehog signaling promotes lipolysis in adipose tissue through directly regulating Bmm/ATGL lipase.

Zhang J, Liu Y, Jiang K, Jia J. Dev Biol. 2020 Jan 1;457(1):128-139. doi: 10.1016/j.ydbio.2019.09.009. Epub 2019 Sep 21.

PMID: 31550483

[\[Abstract\]](#)

Cyclin E and Cdk1 regulate the termination of germline transit-amplification process in *Drosophila* testis.

Gadre P, Chatterjee S, Varshney B, Ray K. Cell Cycle. 2020 Jul;19(14):1786-1803. doi: 10.1080/15384101.2020.1780381. Epub 2020 Jun 23.

PMID: 32573329

[\[Abstract\]](#)

Role for phagocytosis in the prevention of neoplastic transformation in *Drosophila*.

Zhang M, Nagaosa K, Nakai Y, Yasugi T, Kushihiki M, Rahmatika D, Sato M, Shiratsuchi A, Nakanishi Y. Genes Cells. 2020 Oct;25(10):675-684. doi: 10.1111/gtc.12804. Epub 2020 Sep 24.

PMID: 32865275

[\[Abstract\]](#)

Hallmarks of aging *Drosophila* intestinal stem cells.

Rodriguez-Fernandez IA, Tauc HM, Jasper H. Mech Ageing Dev. 2020 Sep;190:111285. doi: 10.1016/j.mad.2020.111285. Epub 2020 Jun 13.

PMID: 32544407

[\[Abstract\]](#)

A single-cell atlas of the developing *Drosophila* ovary identifies follicle stem cell progenitors.

Slaidina M, Banisch TU, Gupta S, Lehmann R. Genes Dev. 2020 Feb 1;34(3-4):239-249. doi: 10.1101/gad.330464.119. Epub 2020 Jan 9.

PMID: 31919193

[\[Abstract\]](#)

CK2 Inhibits TIMELESS Nuclear Export and Modulates CLOCK Transcriptional Activity to Regulate Circadian Rhythms.

Cai YD, Xue Y, Truong CC, Del Carmen-Li J, Ochoa C, Vanselow JT, Murphy KA, Li YH, Liu X, Kunimoto BL, Zheng H, Zhao C, Zhang Y, Schlosser A, Chiu JC. Curr Biol. 2021 Feb 8;31(3):502-514.e7. doi: 10.1016/j.cub.2020.10.061. Epub 2020 Nov 19.

PMID: 33217322

[\[Abstract\]](#)

The microtubule regulator ringer functions downstream from the RNA repair/splicing pathway to promote axon regeneration.

Vargas EJM, Matamoros AJ, Qiu J, Jan CH, Wang Q, Gorczyca D, Han TW, Weissman JS, Jan YN, Banerjee S, Song Y. Genes Dev. 2020 Feb 1;34(3-4):194-208. doi: 10.1101/gad.331330.119. Epub 2020 Jan 9.

PMID: 31919191

[\[Abstract\]](#)

Costameric integrin and sarcoglycan protein levels are altered in a *Drosophila* model for Limb-girdle muscular dystrophy type 2H.

Bawa S, Gameros S, Baumann K, Brooks DS, Kollhoff JA, Zolkiewski M, Re Cecconi AD, Panini N, Russo M, Piccirillo R, Johnson DK, Kashipathy MM, Battaile KP, Lovell S, Bouyain SEA, Kawakami J, Geisbrecht ER.

Mol Biol Cell. 2021 Feb 1;32(3):260-273. doi: 10.1091/mbc.E20-07-0453. Epub 2020 Dec 9.

PMID: 33296226

[\[Abstract\]](#)

Lipidome remodeling in aging normal and genetically obese *Drosophila* males.

Hofbauer HF, Heier C, Sen Saji AK, Kühnlein RP. Insect Biochem Mol Biol. 2020 Nov 20:103498. doi: 10.1016/j.ibmb.2020.103498. Online ahead of print.

PMID: 33221388

[\[Abstract\]](#)

Biotin rescues mitochondrial dysfunction and neurotoxicity in a tauopathy model.

Lohr KM, Frost B, Scherzer C, Feany MB. Proc Natl Acad Sci U S A. 2020 Dec 29;117(52):33608-33618. doi: 10.1073/pnas.1922392117. Epub 2020 Dec 14. PMID: 33318181

[\[Abstract\]](#)

Phosphatase of Regenerating Liver-1 Selectively Times Circadian Behavior in Darkness via Function in PDF Neurons and Dephosphorylation of TIMELESS.

Kula-Eversole E, Lee DH, Samba I, Yildirim E, Levine DC, Hong HK, Lear BC, Bass J, Rosbash M, Allada R. Curr Biol. 2021 Jan 11;31(1):138-149.e5. doi: 10.1016/j.cub.2020.10.013. Epub 2020 Nov 5. PMID: 33157022

[\[Abstract\]](#)

Quality-control mechanisms targeting translationally stalled and C-terminally extended poly(GR) associated with ALS/FTD.

Li S, Wu Z, Tantray I, Li Y, Chen S, Dong J, Glynn S, Vogel H, Snyder M, Lu B. Proc Natl Acad Sci U S A. 2020 Oct 6;117(40):25104-25115. doi: 10.1073/pnas.2005506117. Epub 2020 Sep 21. PMID: 32958650

[\[Abstract\]](#)

STRIPAK-PP2A regulates Hippo-Yorkie signaling to suppress retinal fate in the Drosophila eye disc peripodial epithelium.

Neal SJ, Zhou Q, Pignoni F. J Cell Sci. 2020 May 26;133(10):jcs237834. doi: 10.1242/jcs.237834. PMID: 32184260

[\[Abstract\]](#)

Bidirectional Regulation of Sleep and Synapse Pruning after Neural Injury.

Singh P, Donlea JM. Curr Biol. 2020 Mar 23;30(6):1063-1076.e3. doi: 10.1016/j.cub.2019.12.065. Epub 2020 Mar 5. PMID: 32142703

[\[Abstract\]](#)

CORO7 functions as a scaffold protein for the core kinase complex assembly of the Hippo pathway.

Park J, Jun K, Choi Y, Yoon E, Kim W, Jang YG, Chung J. J Biol Chem. 2020 Nov 8;296:100040. doi: 10.1074/jbc.RA120.013297. Online ahead of print. PMID: 33162394

[\[Abstract\]](#)

Hyperinsulinemia Drives Epithelial Tumorigenesis by Abrogating Cell Competition.

Sanaki Y, Nagata R, Kizawa D, Léopold P, Igaki T. Dev Cell. 2020 May 18;53(4):379-389.e5. doi: 10.1016/j.devcel.2020.04.008. Epub 2020 May 7. PMID: 32386602

[\[Abstract\]](#)

The conserved microRNA miR-210 regulates lipid metabolism and photoreceptor maintenance in the *Drosophila* retina.

Lyu J, Chen Y, Yang W, Guo T, Xu X, Xi Y, Yang X, Ge W. *Cell Death Differ.* 2021 Feb;28(2):764-779. doi: 10.1038/s41418-020-00622-w. Epub 2020 Sep 10.

PMID: 32913227

[\[Abstract\]](#)

Exocyst Genes Are Essential for Recycling Membrane Proteins and Maintaining Slit Diaphragm in *Drosophila* Nephrocytes.

Wen P, Zhang F, Fu Y, Zhu JY, Han Z. *J Am Soc Nephrol.* 2020 May;31(5):1024-1034. doi: 10.1681/ASN.2019060591. Epub 2020 Apr 1.

PMID: 32238475

[\[Abstract\]](#)

Cell-Surface Proteomic Profiling in the Fly Brain Uncovers Wiring Regulators.

Li J, Han S, Li H, Udeshi ND, Svinkina T, Mani DR, Xu C, Guajardo R, Xie Q, Li T, Luginbuhl DJ, Wu B, McLaughlin CN, Xie A, Kaewsapsak P, Quake SR, Carr SA, Ting AY, Luo L. *Cell.* 2020 Jan 23;180(2):373-386.e15. doi: 10.1016/j.cell.2019.12.029. Epub 2020 Jan 16.

PMID: 31955847

[\[Abstract\]](#)

Transformative Network Modeling of Multi-omics Data Reveals Detailed Circuits, Key Regulators, and Potential Therapeutics for Alzheimer's Disease.

Wang M, Li A, Sekiya M, Beckmann ND, Quan X, Schrode N, Fernando MB, Yu A, Zhu L, Cao J, Lyu L, Horgusluoglu E, Wang Q, Guo L, Wang YS, Neff R, Song WM, Wang E, Shen Q, Zhou X, Ming C, Ho SM, Vatansever S, Kaniskan HÜ, Jin J, Zhou MM, Ando K, Ho L, Slesinger PA, Yue Z, Zhu J, Katsel P, Gandy S, Ehrlich ME, Fossati V, Noggle S, Cai D, Haroutunian V, Iijima KM, Schadt E, Brennand KJ, Zhang B. *Neuron.* 2021 Jan 20;109(2):257-272.e14. doi: 10.1016/j.neuron.2020.11.002. Epub 2020 Nov 24.

PMID: 33238137

[\[Abstract\]](#)

Systematic identification of genes regulating synaptic remodeling in the *Drosophila* visual system.

Araki T, Osaka J, Kato Y, Shimozone M, Kawamura H, Iwanaga R, Hakeda-Suzuki S, Suzuki T. *Genes Genet Syst.* 2020 Aug 27;95(3):101-110. doi: 10.1266/ggs.19-00066. Epub 2020 Jun 4.

PMID: 32493879

[\[Abstract\]](#)

PI3K activation prevents A β 42-induced synapse loss and favors insoluble amyloid deposit formation.

Arnés M, Romero N, Casas-Tintó S, Acebes Á, Ferrús A. *Mol Biol Cell.* 2020 Feb 15;31(4):244-260. doi: 10.1091/mbc.E19-05-0303. Epub 2019 Dec 26.

PMID: 31877058

[\[Abstract\]](#)

An abundant quiescent stem cell population in *Drosophila* Malpighian tubules protects principal cells from kidney stones.

Wang C, Spradling AC. *Elife*. 2020 Mar 16;9:e54096. doi: 10.7554/eLife.54096.

PMID: 32175841

[\[Abstract\]](#)

The ESCRT machinery regulates retromer-dependent transcytosis of septate junction components in *Drosophila*.

Pannen H, Rapp T, Klein T. *Elife*. 2020 Dec 30;9:e61866. doi: 10.7554/eLife.61866.

PMID: 33377869

[\[Abstract\]](#)

Mitochondrial Dynamics in the *Drosophila* Ovary Regulates Germ Stem Cell Number, Cell Fate, and Female Fertility.

Garcez M, Branco-Santos J, Gracio PC, Homem CCF. *Front Cell Dev Biol*. 2021 Jan 28;8:596819. doi: 10.3389/fcell.2020.596819. eCollection 2020.

PMID: 33585443

[\[Abstract\]](#)

Lethal (2) giant discs (Lgd)/CC2D1 is required for the full activity of the ESCRT machinery.

Baeumers M, Ruhnau K, Breuer T, Pannen H, Goerlich B, Kniebel A, Haensch S, Weidtkamp-Peters S, Schmitt L, Klein T. *BMC Biol*. 2020 Dec 22;18(1):200. doi: 10.1186/s12915-020-00933-x.

PMID: 33349255

[\[Abstract\]](#)

LSM12-EPAC1 defines a neuroprotective pathway that sustains the nucleocytoplasmic RAN gradient.

Lee J, Park J, Kim JH, Lee G, Park TE, Yoon KJ, Kim YK, Lim C. *PLoS Biol*. 2020 Dec 23;18(12):e3001002. doi: 10.1371/journal.pbio.3001002. eCollection 2020 Dec.

PMID: 33362237

[\[Abstract\]](#)

Transcytosis via the late endocytic pathway as a cell morphogenetic mechanism.

Mathew R, Rios-Barrera LD, Machado P, Schwab Y, Leptin M. *EMBO J*. 2020 Aug 17;39(16):e105332. doi: 10.15252/embj.2020105332. Epub 2020 Jul 13.

PMID: 32657472

[\[Abstract\]](#)

The Broad Transcription Factor Links Hormonal Signaling, Gene Expression, and Cellular Morphogenesis Events During *Drosophila* Imaginal Disc Development.

Rice C, Macdonald SJ, Wang X, Ward RE. Genetics. 2020 Dec;216(4):1137-1152. doi: 10.1534/genetics.120.303717. Epub 2020 Oct 28.

PMID: 33115752

[\[Abstract\]](#)

dTACC restricts bouton addition and regulates microtubule organization at the Drosophila neuromuscular junction.

Chou VT, Johnson S, Long J, Vounatsos M, Van Vactor D. Cytoskeleton (Hoboken). 2020 Jan;77(1-2):4-15. doi: 10.1002/cm.21578. Epub 2019 Nov 21.

PMID: 31702858

[\[Abstract\]](#)

Zika virus non-structural protein NS4A restricts eye growth in Drosophila through regulation of JAK/STAT signaling.

Harsh S, Fu Y, Kenney E, Han Z, Eleftherianos I. Dis Model Mech. 2020 Apr 30;13(4):dmm040816. doi: 10.1242/dmm.040816.

PMID: 32152180

[\[Abstract\]](#)

Daughterless, the Drosophila orthologue of TCF4, is required for associative learning and maintenance of the synaptic proteome.

Tamberg L, Jaago M, Säälik K, Sirp A, Tuvikene J, Shubina A, Kiir CS, Nurm K, Sepp M, Timmusk T, Palgi M. Dis Model Mech. 2020 Jul 30;13(7):dmm042747. doi: 10.1242/dmm.042747.

PMID: 32641419

[\[Abstract\]](#)

Role of Serotonin Transporter in Eye Development of Drosophila melanogaster.

Pham TLA, Binh TD, Liu G, Nguyen TQC, Nguyen YDH, Sahashi R, Men TT, Kamei K. Int J Mol Sci. 2020 Jun 8;21(11):4086. doi: 10.3390/ijms21114086.

PMID: 32521639

[\[Abstract\]](#)

Cleavage of human tau at Asp421 inhibits hyperphosphorylated tau induced pathology in a Drosophila model.

Chi H, Sun L, Shiu RH, Han R, Hsieh CP, Wei TM, Lo CC, Chang HY, Sang TK. Sci Rep. 2020 Aug 10;10(1):13482. doi: 10.1038/s41598-020-70423-1.

PMID: 32778728

[\[Abstract\]](#)

Reduced Function of the Glutathione S-Transferase S1 Suppresses Behavioral Hyperexcitability in Drosophila Expressing Mutant Voltage-Gated Sodium Channels.

Chen HL, Kasuya J, Lansdon P, Kaas G, Tang H, Sodders M, Kitamoto T. G3 (Bethesda). 2020 Apr 9;10(4):1327-1340. doi: 10.1534/g3.119.401025.

PMID: 32054635

[\[Abstract\]](#)

Identification of New Regulators of the Oocyte-to-Embryo Transition in *Drosophila*.

Avilés-Pagán EE, Kang ASW, Orr-Weaver TL. G3 (Bethesda). 2020 Sep 2;10(9):2989-2998. doi: 10.1534/g3.120.401415.

PMID: 32690584

[\[Abstract\]](#)

Meep, a Novel Regulator of Insulin Signaling, Supports Development and Insulin Sensitivity via Maintenance of Protein Homeostasis in *Drosophila melanogaster*.

Pereira MT, Brock K, Musselman LP. G3 (Bethesda). 2020 Dec 3;10(12):4399-4410. doi: 10.1534/g3.120.401688.

PMID: 32998936

[\[Abstract\]](#)

Lola regulates *Drosophila* adult midgut homeostasis via non-canonical hippo signaling.

Hao X, Wang S, Lu Y, Yu W, Li P, Jiang D, Guo T, Li M, Li J, Xu J, Wu W, Ho MS, Zhang L. Elife. 2020 Jan 14;9:e47542. doi: 10.7554/eLife.47542.

PMID: 31934851

[\[Abstract\]](#)

Endurance exercise protects aging *Drosophila* from high-salt diet (HSD)-induced climbing capacity decline and lifespan decrease by enhancing antioxidant capacity.

Wen DT, Wang WQ, Hou WQ, Cai SX, Zhai SS. Biol Open. 2020 May 29;9(5):bio045260. doi: 10.1242/bio.045260.

PMID: 32414766

[\[Abstract\]](#)

Mitochondrial complex I derived ROS regulate stress adaptation in *Drosophila melanogaster*.

Scialò F, Sriram A, Stefanatos R, Spriggs RV, Loh SHY, Martins LM, Sanz A. Redox Biol. 2020 May;32:101450. doi: 10.1016/j.redox.2020.101450. Epub 2020 Feb 7.

PMID: 32146156

[\[Abstract\]](#)

The conserved microRNA miR-34 regulates synaptogenesis via coordination of distinct mechanisms in presynaptic and postsynaptic cells.

McNeill EM, Warinner C, Alkins S, Taylor A, Heggeness H, DeLuca TF, Fulga TA, Wall DP, Griffith LC, Van Vactor D. Nat Commun. 2020 Feb 27;11(1):1092. doi: 10.1038/s41467-020-14761-8.

PMID: 32107390

[\[Abstract\]](#)

Akt1 and dCIZ1 promote cell survival from apoptotic caspase activation during regeneration and oncogenic overgrowth.

Sun G, Ding XA, Argaw Y, Guo X, Montell DJ. Nat Commun. 2020 Nov 12;11(1):5726. doi: 10.1038/s41467-020-19068-2.
PMID: 33184261

[\[Abstract\]](#)

Lysosomal Hydrolase Cathepsin D Non-proteolytically Modulates Dendritic Morphology in Drosophila.

Zhang T, Cheng D, Wu C, Wang X, Ke Q, Lou H, Zhu L, Wang XD, Duan S, Liu YJ. Neurosci Bull. 2020 Oct;36(10):1147-1157. doi: 10.1007/s12264-020-00479-6. Epub 2020 Mar 14.
PMID: 32170568

[\[Abstract\]](#)

Genetic Basis of Increased Lifespan and Postponed Senescence in Drosophila melanogaster.

Parker GA, Kohn N, Spirina A, McMillen A, Huang W, Mackay TFC. G3 (Bethesda). 2020 Mar 5;10(3):1087-1098. doi: 10.1534/g3.120.401041.
PMID: 31969430

[\[Abstract\]](#)

PERK-Mediated eIF2 α Phosphorylation Contributes to The Protection of Dopaminergic Neurons from Chronic Heat Stress in Drosophila.

Elvira R, Cha SJ, Noh GM, Kim K, Han J. Int J Mol Sci. 2020 Jan 28;21(3):845. doi: 10.3390/ijms21030845.
PMID: 32013014

[\[Abstract\]](#)

Carrier of Wingless (Cow) Regulation of Drosophila Neuromuscular Junction Development.

Kopke DL, Leahy SN, Vita DJ, Lima SC, Newman ZL, Broadie K. eNeuro. 2020 Mar 10;7(2):ENEURO.0285-19.2020. doi: 10.1523/ENEURO.0285-19.2020. Print 2020 Mar/Apr.
PMID: 32024666

[\[Abstract\]](#)

Broadly conserved roles of TMEM131 family proteins in intracellular collagen assembly and secretory cargo trafficking.

Zhang Z, Bai M, Barbosa GO, Chen A, Wei Y, Luo S, Wang X, Wang B, Tsukui T, Li H, Sheppard D, Kornberg TB, Ma DK. Sci Adv. 2020 Feb 12;6(7):eaay7667. doi: 10.1126/sciadv.aay7667. eCollection 2020 Feb.
PMID: 32095531

[\[Abstract\]](#)

Circadian regulation of mitochondrial uncoupling and lifespan.

Ulgherait M, Chen A, McAllister SF, Kim HX, Delventhal R, Wayne CR, Garcia CJ, Recinos Y, Oliva M, Canman JC, Picard M, Owusu-Ansah E, Shirasu-Hiza M. *Nat Commun.* 2020 Apr 21;11(1):1927. doi: 10.1038/s41467-020-15617-x.

PMID: 32317636

[\[Abstract\]](#)

Alterations in TGF- β signaling leads to high HMGA2 levels potentially through modulation of PJA1/SMAD3 in HCC cells.

Ohshiro K, Chen J, Srivastav J, Mishra L, Mishra B. *Genes Cancer.* 2020;11(1-2):43-52. doi: 10.18632/genesandcancer.199.

PMID: 32577156

[\[Abstract\]](#)

Rabphilin involvement in filtration and molecular uptake in *Drosophila* nephrocytes suggests a similar role in human podocytes.

Selma-Soriano E, Llamusi B, Fernández-Costa JM, Ozimski LL, Artero R, Redón J. *Dis Model Mech.* 2020 Sep 21;13(9):dmm041509. doi: 10.1242/dmm.041509.

PMID: 32680845

[\[Abstract\]](#)

Investigating Developmental and Epileptic Encephalopathy Using *Drosophila melanogaster*.

Takai A, Yamaguchi M, Yoshida H, Chiyonobu T. *Int J Mol Sci.* 2020 Sep 3;21(17):6442. doi: 10.3390/ijms21176442.

PMID: 32899411

[\[Abstract\]](#)

Modulation of flight and feeding behaviours requires presynaptic IP3Rs in dopaminergic neurons.

Sharma A, Hasan G. *Elife.* 2020 Nov 6;9:e62297. doi: 10.7554/eLife.62297.

PMID: 33155978

[\[Abstract\]](#)

Chloride intracellular channel 1 cooperates with potassium channel EAG2 to promote medulloblastoma growth.

Francisco MA, Wanggou S, Fan JJ, Dong W, Chen X, Momin A, Abeysundara N, Min HK, Chan J, McAdam R, Sia M, Pusong RJ, Liu S, Patel N, Ramaswamy V, Kijima N, Wang LY, Song Y, Kafri R, Taylor MD, Li X, Huang X. *J Exp Med.* 2020 May 4;217(5):e20190971. doi: 10.1084/jem.20190971.

PMID: 32097463

[\[Abstract\]](#)

Suppression of Patronin deficiency by altered Hippo signaling in *Drosophila* organ development.

Yang DW, Choi KW. *Cell Death Differ.* 2021 Jan;28(1):233-250. doi: 10.1038/s41418-020-0597-x. Epub 2020 Jul 31.

PMID: 32737445

[\[Abstract\]](#)

Dynamic Signal Compression for Robust Motion Vision in Flies.

Drews MS, Leonhardt A, Pirogova N, Richter FG, Schuetzenberger A, Braun L, Serbe E, Borst A. *Curr Biol.* 2020 Jan 20;30(2):209-221.e8. doi: 10.1016/j.cub.2019.10.035. Epub 2020 Jan 10.

PMID: 31928873

[\[Abstract\]](#)

Spatial Comparisons of Mechanosensory Information Govern the Grooming Sequence in *Drosophila*.

Zhang N, Guo L, Simpson JH. *Curr Biol.* 2020 Mar 23;30(6):988-1001.e4. doi: 10.1016/j.cub.2020.01.045. Epub 2020 Mar 5.

PMID: 32142695

[\[Abstract\]](#)

***Drosophila* Tubulin-Specific Chaperone E Recruits Tubulin around Chromatin to Promote Mitotic Spindle Assembly.**

Métivier M, Gallaud E, Thomas A, Pascal A, Gagné JP, Poirier GG, Chrétien D, Gibeaux R, Richard-Parpaillon L, Benaud C, Giet R. *Curr Biol.* 2021 Feb 22;31(4):684-695.e6. doi: 10.1016/j.cub.2020.11.009. Epub 2020 Nov 30.

PMID: 33259793

[\[Abstract\]](#)

Large-Scale Transgenic *Drosophila* Resource Collections for Loss- and Gain-of-Function Studies.

Zirin J, Hu Y, Liu L, Yang-Zhou D, Colbeth R, Yan D, Ewen-Campen B, Tao R, Vogt E, VanNest S, Cavers C, Villalta C, Comjean A, Sun J, Wang X, Jia Y, Zhu R, Peng P, Yu J, Shen D, Qiu Y, Ayisi L, Ragoowansi H, Fenton E, Efrem S, Parks A, Saito K, Kondo S, Perkins L, Mohr SE, Ni J, Perrimon N. *Genetics.* 2020 Apr;214(4):755-767. doi: 10.1534/genetics.119.302964. Epub 2020 Feb 18.

PMID: 32071193

[\[Abstract\]](#)

Multiple channels of DEET repellency in *Drosophila*.

Guo H, Kunwar K, Smith D. *Pest Manag Sci.* 2020 Mar;76(3):880-887. doi: 10.1002/ps.5592. Epub 2019 Sep 30.

PMID: 31429190

[\[Abstract\]](#)

Sites of Circadian Clock Neuron Plasticity Mediate Sensory Integration and Entrainment.

Fernandez MP, Pettibone HL, Bogart JT, Roell CJ, Davey CE, Pranevicius A, Huynh KV, Lennox SM, Kostadinov BS, Shafer OT. *Curr Biol.* 2020 Jun 22;30(12):2225-2237.e5. doi: 10.1016/j.cub.2020.04.025. Epub 2020 May 7.

PMID: 32386535

[\[Abstract\]](#)

Contribution of Intellectual Disability-Related Genes to ADHD Risk and to Locomotor Activity in *Drosophila*.

Klein M, Singgih EL, van Rens A, Demontis D, Børglum AD, Mota NR, Castells-Nobau A, Kiemeny LA, Brunner HG, Arias-Vasquez A, Schenck A, van der Voet M, Franke B. *Am J Psychiatry*. 2020 Jun 1;177(6):526-536. doi: 10.1176/appi.ajp.2019.18050599. Epub 2020 Feb 12.

PMID: 32046534

[\[Abstract\]](#)

Spatial and temporal control of gene manipulation in *Drosophila* via drug-activated Cas9 nucleases.

Huynh N, Wang S, King-Jones K. *Insect Biochem Mol Biol*. 2020 May;120:103336. doi: 10.1016/j.ibmb.2020.103336. Epub 2020 Feb 24.

PMID: 32105778

[\[Abstract\]](#)

GWAS for Lifespan and Decline in Climbing Ability in Flies upon Dietary Restriction Reveal *decima* as a Mediator of Insulin-like Peptide Production.

Wilson KA, Beck JN, Nelson CS, Hilsabeck TA, Promislow D, Brem RB, Kapahi P. *Curr Biol*. 2020 Jul 20;30(14):2749-2760.e3. doi: 10.1016/j.cub.2020.05.020. Epub 2020 Jun 4.

PMID: 32502405

[\[Abstract\]](#)

Decoupling of Apoptosis from Activation of the ER Stress Response by the *Drosophila* Metallopeptidase superdeath.

Palu RAS, Dalton HM, Chow CY. *Genetics*. 2020 Apr;214(4):913-925. doi: 10.1534/genetics.119.303004. Epub 2020 Feb 11.

PMID: 32047096

[\[Abstract\]](#)

Nucleocytoplasmic Proteomic Analysis Uncovers eRF1 and Nonsense-Mediated Decay as Modifiers of ALS/FTD *C9orf72* Toxicity.

Ortega JA, Daley EL, Kour S, Samani M, Tellez L, Smith HS, Hall EA, Esengul YT, Tsai YH, Gendron TF, Donnelly CJ, Siddique T, Savas JN, Pandey UB, Kiskinis E. *Neuron*. 2020 Apr 8;106(1):90-107.e13. doi: 10.1016/j.neuron.2020.01.020. Epub 2020 Feb 13.

PMID: 32059759

[\[Abstract\]](#)

Methylmercury myotoxicity targets formation of the myotendinous junction.

Peppriell AE, Gunderson JT, Vorobjeikina D, Rand MD. *Toxicology*. 2020 Oct;443:152561. doi: 10.1016/j.tox.2020.152561. Epub 2020 Aug 13.

PMID: 32800841

[\[Abstract\]](#)

Availability of food determines the need for sleep in memory consolidation.

Chouhan NS, Griffith LC, Haynes P, Sehgal A. *Nature*. 2021 Jan;589(7843):582-585. doi: 10.1038/s41586-020-2997-y. Epub 2020 Dec 2.

PMID: 33268891

[\[Abstract\]](#)

Astroglial Calcium Signaling Encodes Sleep Need in Drosophila.

Blum ID, Keleş MF, Baz ES, Han E, Park K, Luu S, Issa H, Brown M, Ho MCW, Tabuchi M, Liu S, Wu MN. *Curr Biol*. 2021 Jan 11;31(1):150-162.e7. doi: 10.1016/j.cub.2020.10.012. Epub 2020 Nov 12.

PMID: 33186550

[\[Abstract\]](#)

STRIPAK regulates Slik localization to control mitotic morphogenesis and epithelial integrity.

De Jamblinne CV, Decelle B, Dehghani M, Joseph M, Sriskandarajah N, Leguay K, Rambaud B, Lemieux S, Roux PP, Hipfner DR, Carréno S. *J Cell Biol*. 2020 Nov 2;219(11):e201911035. doi:

10.1083/jcb.201911035.

PMID: 32960945

[\[Abstract\]](#)

A dynamic cell recruitment process drives growth of the Drosophila wing by overscaling the vestigial expression pattern.

Muñoz-Nava LM, Alvarez HA, Flores-Flores M, Chara O, Nahmad M. *Dev Biol*. 2020 Jun 15;462(2):141-151. doi: 10.1016/j.ydbio.2020.03.009. Epub 2020 Mar 19.

PMID: 32197891

[\[Abstract\]](#)

Transforming nanobodies into high-precision tools for protein function analysis.

Gettemans J, De Dobbelaer B. *Am J Physiol Cell Physiol*. 2021 Feb 1;320(2):C195-C215. doi: 10.1152/ajpcell.00435.2020. Epub 2020 Dec 2.

PMID: 33264078

[\[Abstract\]](#)

Prostaglandins regulate invasive, collective border cell migration.

Fox EF, Lamb MC, Mellentine SQ, Tootle TL. *Mol Biol Cell*. 2020 Jul 15;31(15):1584-1594. doi: 10.1091/mbc.E19-10-0578. Epub 2020 May 20.

PMID: 32432969

[\[Abstract\]](#)

A Neural Network for Wind-Guided Compass Navigation.

Okubo TS, Patella P, D'Alessandro I, Wilson RI. *Neuron*. 2020 Sep 9;107(5):924-940.e18. doi: 10.1016/j.neuron.2020.06.022. Epub 2020 Jul 17.

PMID: 32681825

[\[Abstract\]](#)

The diversity of lobula plate tangential cells (LPTCs) in the *Drosophila* motion vision system.

Wei H, Kyung HY, Kim PJ, Desplan C. *J Comp Physiol A Neuroethol Sens Neural Behav Physiol*. 2020 Mar;206(2):139-148. doi: 10.1007/s00359-019-01380-y. Epub 2019 Nov 11.

PMID: 31709462

[\[Abstract\]](#)

TGFB-INHB/activin signaling regulates age-dependent autophagy and cardiac health through inhibition of mTORC2.

Chang K, Kang P, Liu Y, Huang K, Miao T, Sagona AP, Nezis IP, Bodmer R, Ocorr K, Bai H. *Autophagy*. 2020 Oct;16(10):1807-1822. doi: 10.1080/15548627.2019.1704117. Epub 2019 Dec 29.

PMID: 31884871

[\[Abstract\]](#)

Deubiquitinase OTUD5 is a positive regulator of mTORC1 and mTORC2 signaling pathways.

Cho JH, Kim K, Kim SA, Park S, Park BO, Kim JH, Kim SY, Kwon MJ, Han MH, Lee SB, Park BC, Park SG, Kim JH, Kim S. *Cell Death Differ*. 2021 Mar;28(3):900-914. doi: 10.1038/s41418-020-00649-z. Epub 2020 Oct 27.

PMID: 33110214

[\[Abstract\]](#)

A New Role for Neuropeptide F Signaling in Controlling Developmental Timing and Body Size in *Drosophila melanogaster*.

Kannangara JR, Henstridge MA, Parsons LM, Kondo S, Mirth CK, Warr CG. *Genetics*. 2020 Sep;216(1):135-144. doi: 10.1534/genetics.120.303475. Epub 2020 Jul 16.

PMID: 32675276

[\[Abstract\]](#)

Insulin signaling requires glucose to promote lipid anabolism in adipocytes.

Krycer JR, Quek LE, Francis D, Zadoorian A, Weiss FC, Cooke KC, Nelson ME, Diaz-Vegas A, Humphrey SJ, Scalzo R, Hirayama A, Ikeda S, Shoji F, Suzuki K, Huynh K, Giles C, Varney B, Nagarajan SR, Hoy AJ, Soga T, Meikle PJ, Cooney GJ, Fazakerley DJ, James DE. *J Biol Chem*. 2020 Sep 18;295(38):13250-13266. doi: 10.1074/jbc.RA120.014907. Epub 2020 Jul 28.

PMID: 32723868

[\[Abstract\]](#)

Lactate production is a prioritized feature of adipocyte metabolism.

Krycer JR, Quek LE, Francis D, Fazakerley DJ, Elkington SD, Diaz-Vegas A, Cooke KC, Weiss FC, Duan X, Kurdyukov S, Zhou PX, Tambar UK, Hirayama A, Ikeda S, Kamei Y, Soga T, Cooney GJ, James DE. *J Biol Chem*. 2020 Jan 3;295(1):83-98. doi: 10.1074/jbc.RA119.011178. Epub 2019 Nov 5.

PMID: 31690627

[\[Abstract\]](#)

Pyridoxine/pyridoxamine 5'-phosphate oxidase (SglI/PNPO) is important for DNA integrity and glucose homeostasis maintenance in *Drosophila*.

Mascolo E, Amoroso N, Saggio I, Merigliano C, Verni F. *J Cell Physiol*. 2020 Jan;235(1):504-512. doi: 10.1002/jcp.28990. Epub 2019 Jul 10.

PMID: 31506944

[\[Abstract\]](#)

Synthesis of Conserved Odor Object Representations in a Random, Divergent-Convergent Network.

Endo K, Tsuchimoto Y, Kazama H. *Neuron*. 2020 Oct 28;108(2):367-381.e5. doi:

10.1016/j.neuron.2020.07.029. Epub 2020 Aug 18.

PMID: 32814018

[\[Abstract\]](#)

LIM and SH3 protein 1 (LASP-1): A novel link between the slit membrane and actin cytoskeleton dynamics in podocytes.

Lepa C, Möller-Kerutt A, Stölting M, Picciotto C, Eddy ML, Butt E, Kerjaschki D, Korb-Pap A, Vollenbröker B, Weide T, George B, Kremerskothen J, Pavenstädt H. *FASEB J*. 2020 Apr;34(4):5453-5464. doi:

10.1096/fj.201901443R. Epub 2020 Feb 21.

PMID: 32086849

[\[Abstract\]](#)

A Circuit Encoding Absolute Cold Temperature in *Drosophila*.

Alpert MH, Frank DD, Kaspi E, Flourakis M, Zaharieva EE, Allada R, Para A, Gallio M. *Curr Biol*. 2020 Jun 22;30(12):2275-2288.e5. doi: 10.1016/j.cub.2020.04.038. Epub 2020 May 21.

PMID: 32442464

[\[Abstract\]](#)

Reverse and forward engineering of *Drosophila* corneal nanocoatings.

Kryuchkov M, Bilousov O, Lehmann J, Fiebig M, Katanaev VL. *Nature*. 2020 Sep;585(7825):383-389. doi: 10.1038/s41586-020-2707-9. Epub 2020 Sep 16.

PMID: 32939070

[\[Abstract\]](#)

Collective Migrations of *Drosophila* Embryonic Trunk and Caudal Mesoderm-Derived Muscle Precursor Cells.

Sun J, Macabenta F, Akos Z, Stathopoulos A. *Genetics*. 2020 Jun;215(2):297-322. doi: 10.1534/genetics.120.303258.

PMID: 32487692

[\[Abstract\]](#)

The Warburg Micro Syndrome-associated Rab3GAP-Rab18 module promotes autolysosome maturation through the Vps34 Complex I.

Takáts S, Lévy L, Boda A, Tóth S, Simon-Vecsei Z, Rubics A, Varga Á, Lippai M, Lőrincz P, Glatz G, Juhász G. *FEBS J*. 2021 Jan;288(1):190-211. doi: 10.1111/febs.15313. Epub 2020 Apr 22.

PMID: 32248620

[\[Abstract\]](#)

NF- κ B disinhibition contributes to dendrite defects in fly models of neurodegenerative diseases.

Han MH, Kwon MJ, Ko BS, Hyeon DY, Lee D, Kim HJ, Hwang D, Lee SB. *J Cell Biol*. 2020 Dec 7;219(12):e202004107. doi: 10.1083/jcb.202004107.

PMID: 33090185

[\[Abstract\]](#)

Various modes of HP1a interactions with the euchromatic chromosome arms in *Drosophila* ovarian somatic cells.

Ilyin AA, Stolyarenko AD, Klenov MS, Shevelyov YY. *Chromosoma*. 2020 Dec;129(3-4):201-214. doi: 10.1007/s00412-020-00738-5. Epub 2020 Jun 5.

PMID: 32500264

[\[Abstract\]](#)

Two Brain Pathways Initiate Distinct Forward Walking Programs in *Drosophila*.

Bidaye SS, Laturney M, Chang AK, Liu Y, Bockemühl T, Büschges A, Scott K. *Neuron*. 2020 Nov 11;108(3):469-485.e8. doi: 10.1016/j.neuron.2020.07.032. Epub 2020 Aug 20.

PMID: 32822613

[\[Abstract\]](#)

Context-dependent responses of *Drosophila* intestinal stem cells to intracellular reactive oxygen species.

Chen F, Su R, Ni S, Liu Y, Huang J, Li G, Wang Q, Zhang X, Yang Y. *Redox Biol*. 2021 Feb;39:101835. doi: 10.1016/j.redox.2020.101835. Epub 2020 Dec 17.

PMID: 33360688

[\[Abstract\]](#)

The *Drosophila* CG1674 gene encodes a synaptopodin 2-like related protein that localizes to the Z-disc and is required for normal flight muscle development and function.

Czajkowski ER, Cisneros M, Garcia BS, Shen J, Cripps RM. *Dev Dyn*. 2021 Jan;250(1):99-110. doi: 10.1002/dvdy.250. Epub 2020 Sep 17.

PMID: 32893414

[\[Abstract\]](#)

Drosophila SERTAD domain protein Taranis is required in somatic cells for maintenance of male germline stem cells.

Dutta P, Nath S, Li J, Li WX. Dev Dyn. 2021 Feb;250(2):237-248. doi: 10.1002/dvdy.255. Epub 2020 Oct 2.

PMID: 32969117

[\[Abstract\]](#)

Dis3L2 regulates cell proliferation and tissue growth through a conserved mechanism.

Towler BP, Pashler AL, Haime HJ, Przybyl KM, Viegas SC, Matos RG, Morley SJ, Arraiano CM, Newbury SF.

PLoS Genet. 2020 Dec 28;16(12):e1009297. doi: 10.1371/journal.pgen.1009297. eCollection 2020 Dec.

PMID: 33370287

[\[Abstract\]](#)

An Axon-Pathfinding Mechanism Preserves Epithelial Tissue Integrity.

Cammarota C, Finegan TM, Wilson TJ, Yang S, Bergstralh DT. Curr Biol. 2020 Dec 21;30(24):5049-

5057.e3. doi: 10.1016/j.cub.2020.09.061. Epub 2020 Oct 15.

PMID: 33065006

[\[Abstract\]](#)

Harnessing the paradoxical phenotypes of APOE ϵ 2 and APOE ϵ 4 to identify genetic modifiers in Alzheimer's disease.

Kim YW, Al-Ramahi I, Koire A, Wilson SJ, Konecki DM, Mota S, Soleimani S, Botas J, Lichtarge O.

Alzheimers Dement. 2021 May;17(5):831-846. doi: 10.1002/alz.12240. Epub 2020 Dec 7.

PMID: 33576571

[\[Abstract\]](#)